

FIG. 1

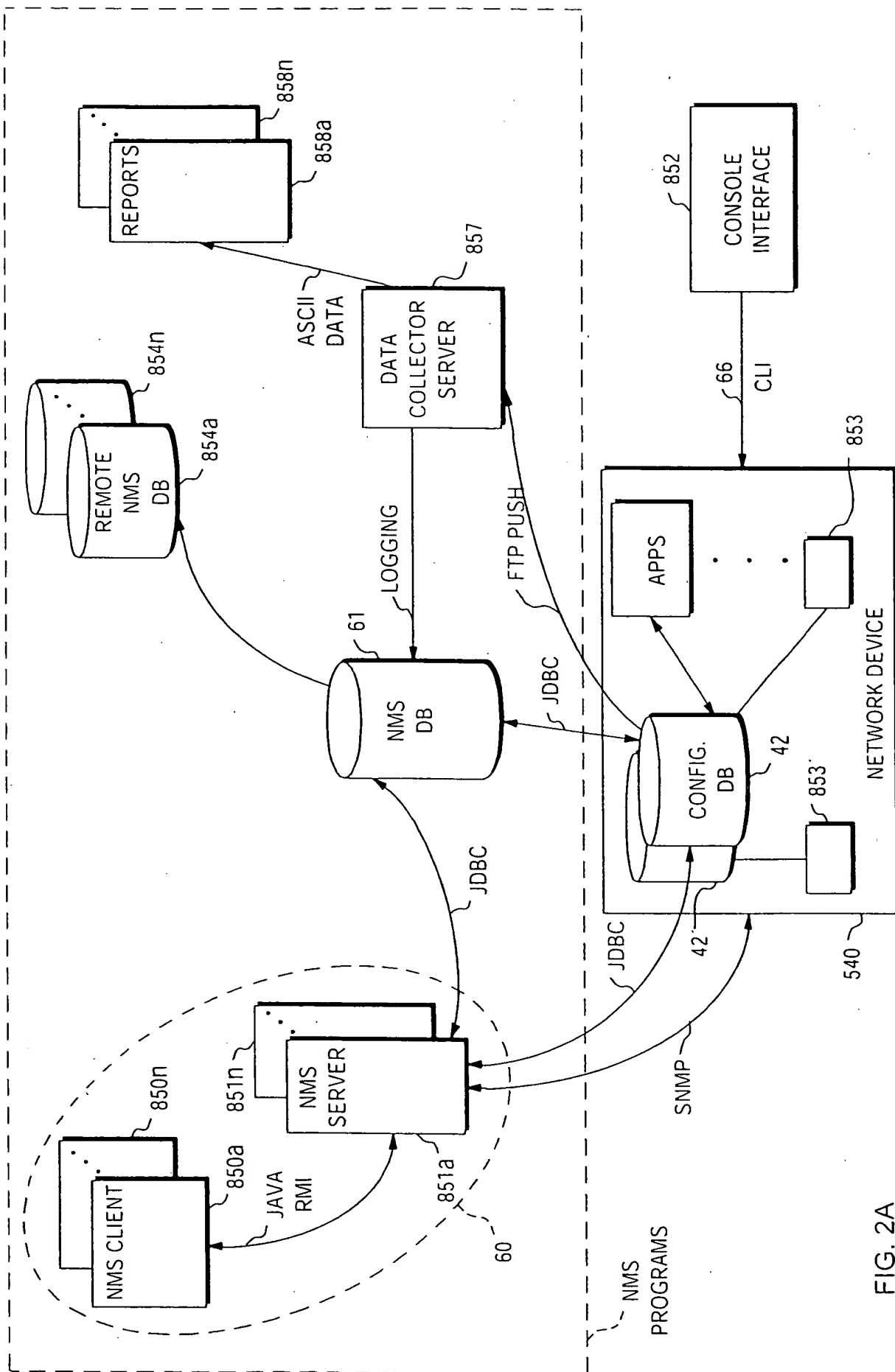


FIG. 2A

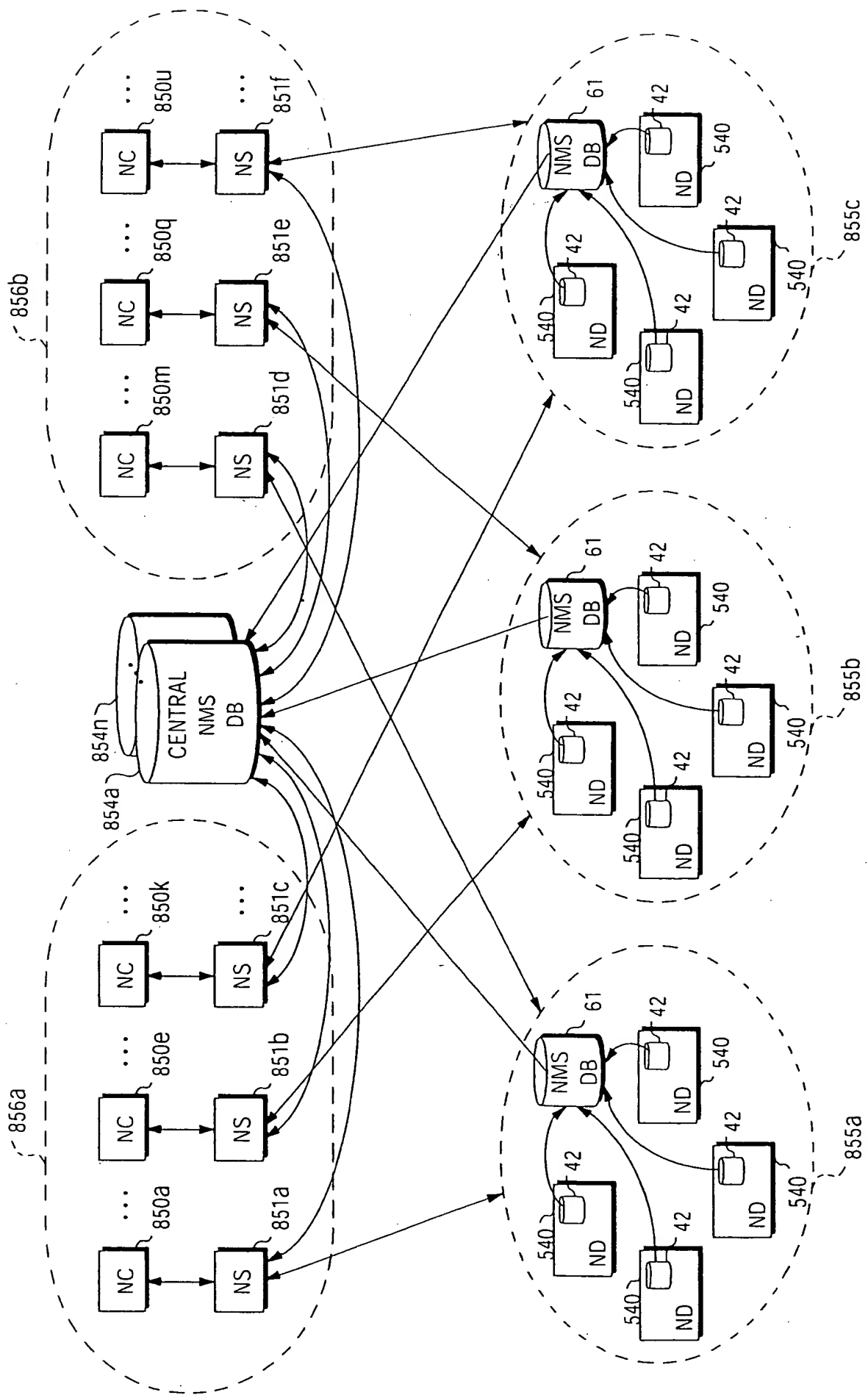


FIG. 2B

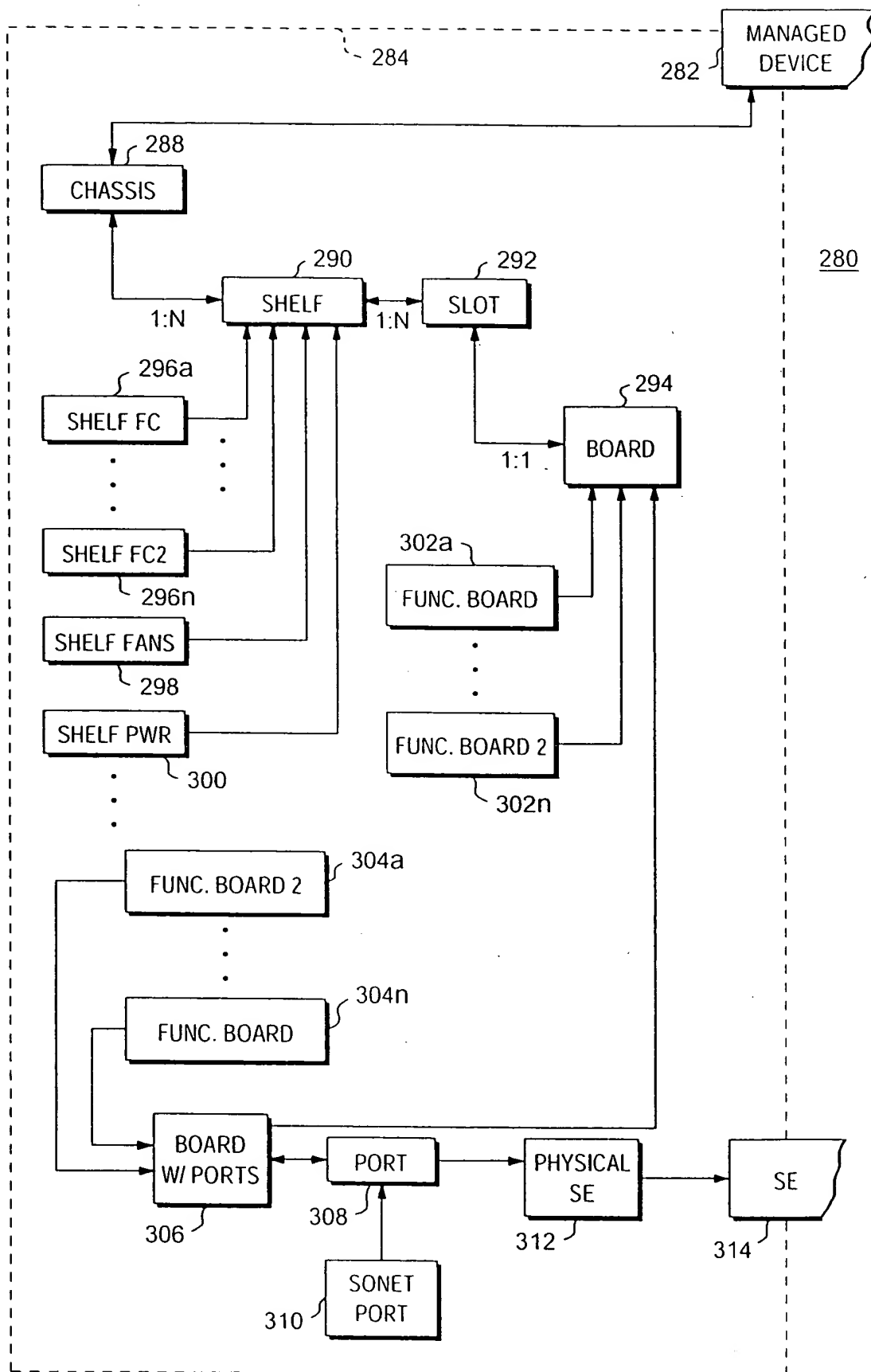


FIG. 3A

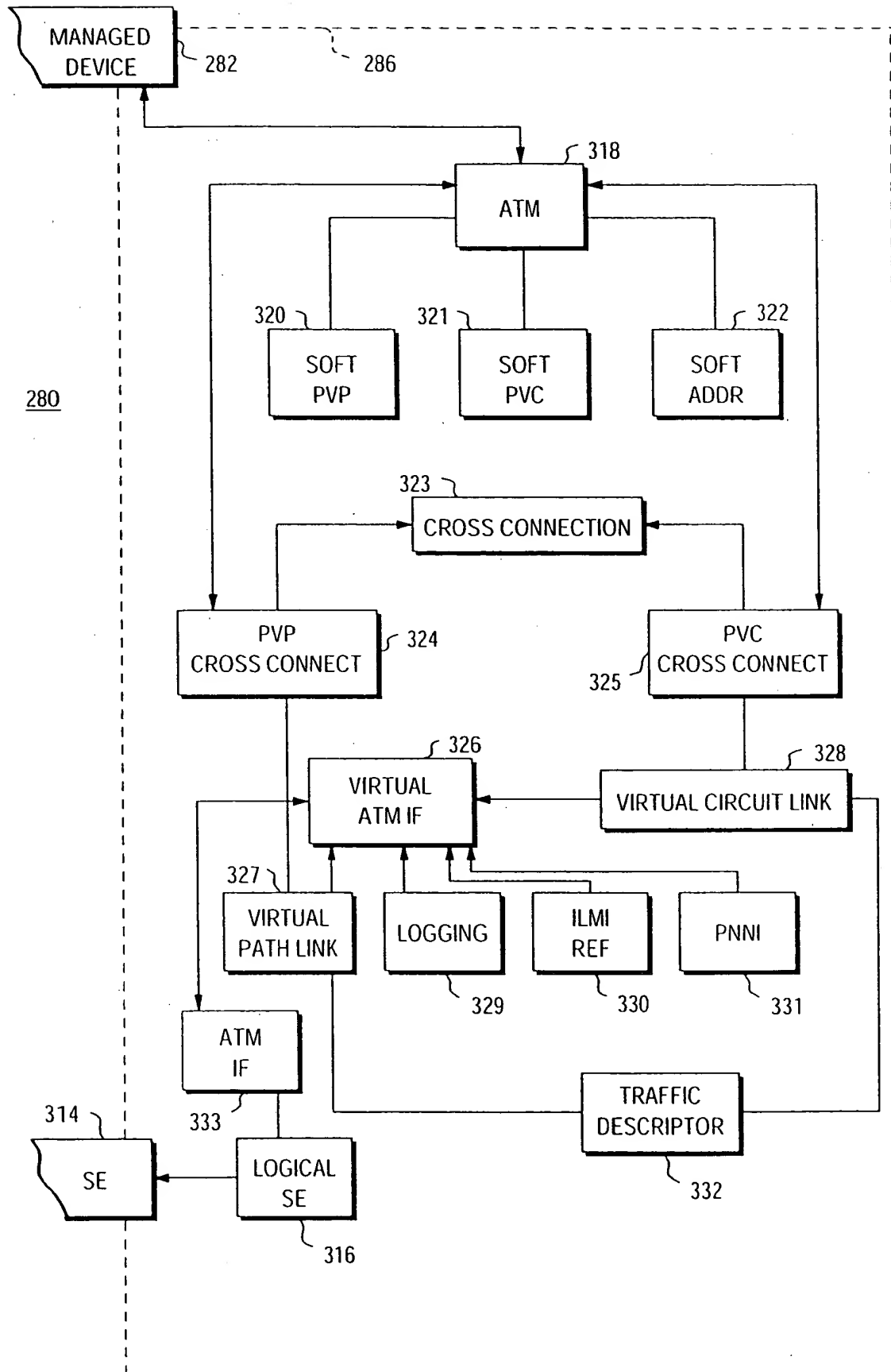


FIG. 3A CONTINUED

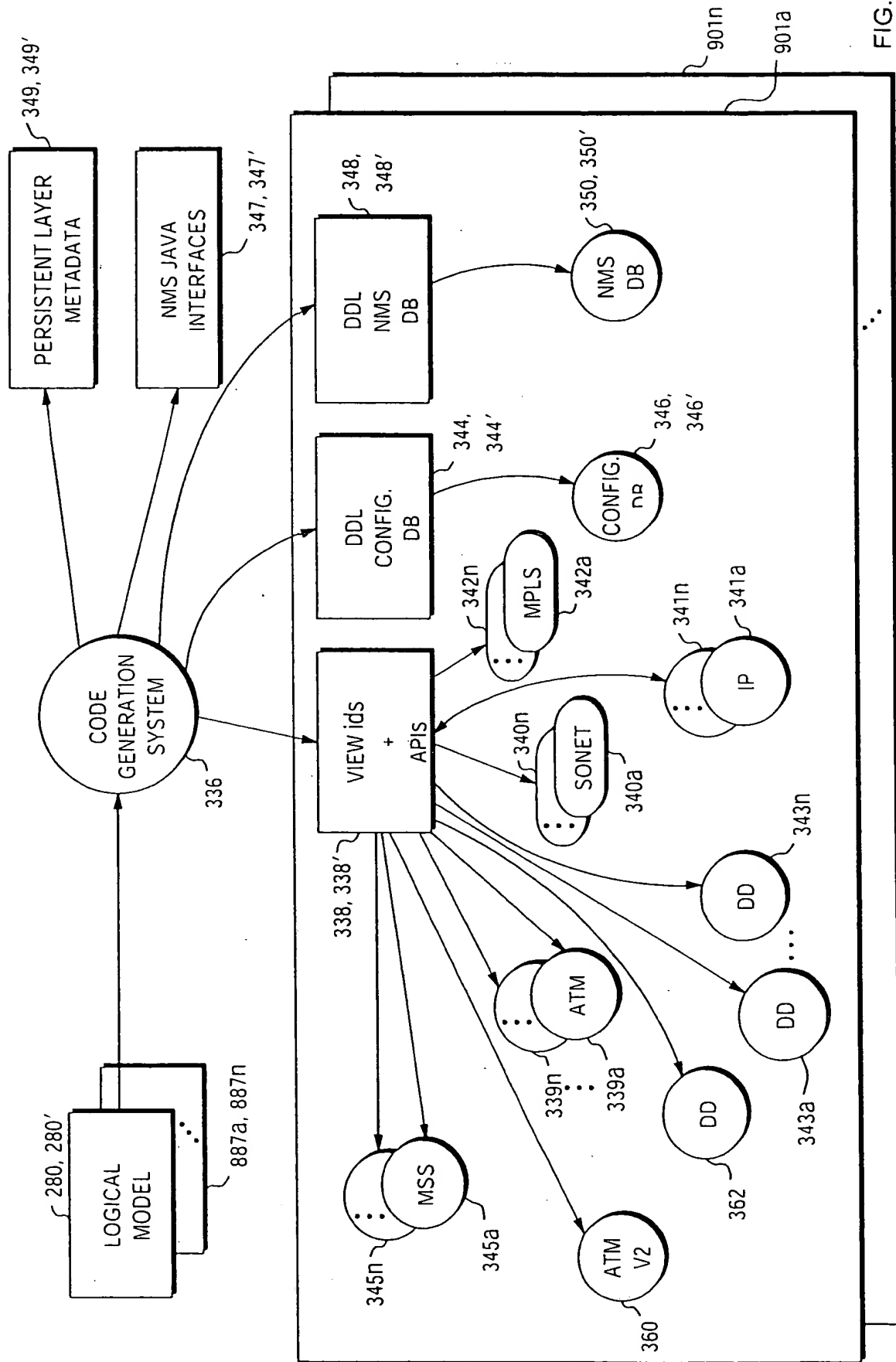


FIG. 3B

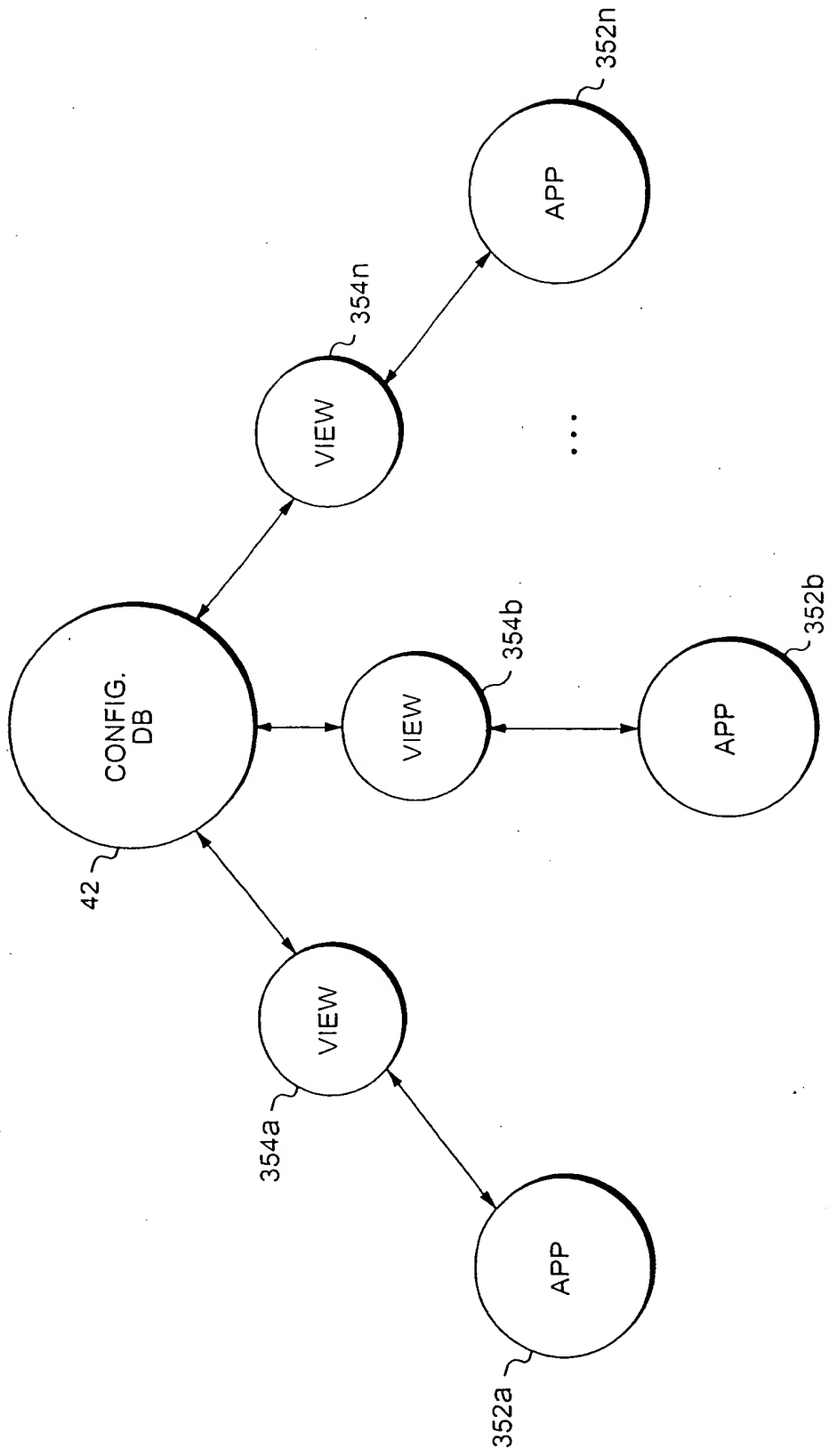


FIG. 3C

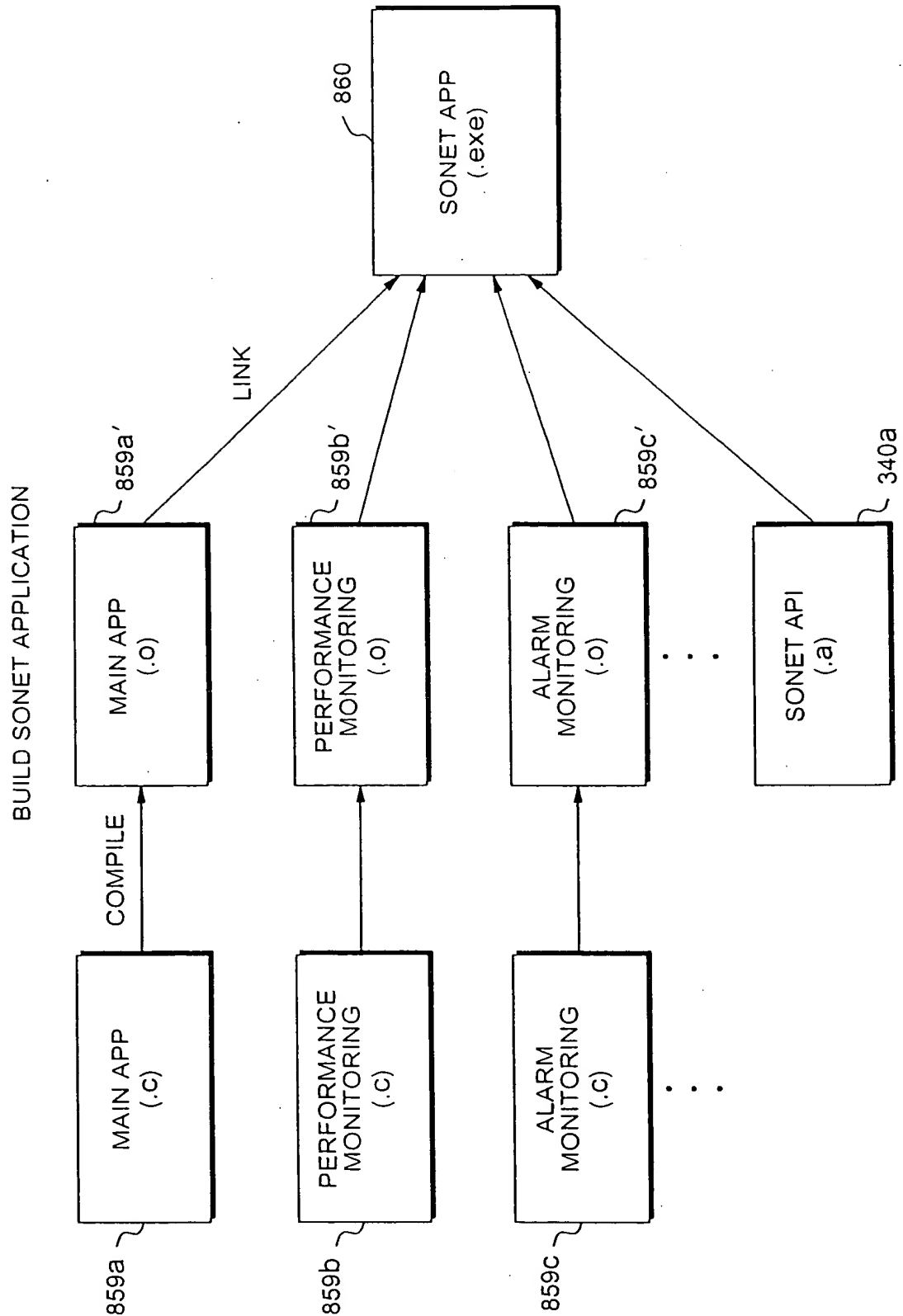


FIG. 3D

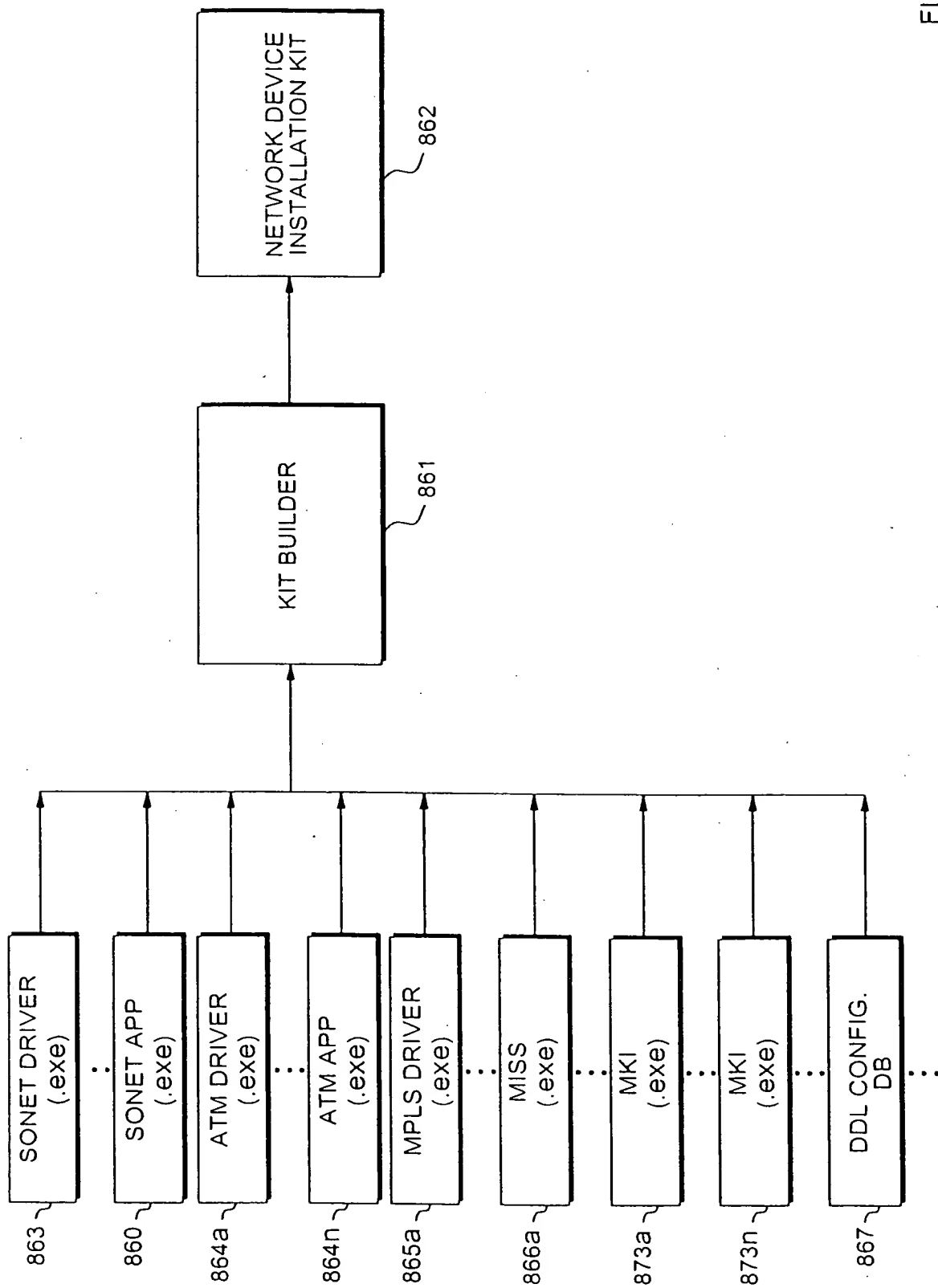


FIG. 3E

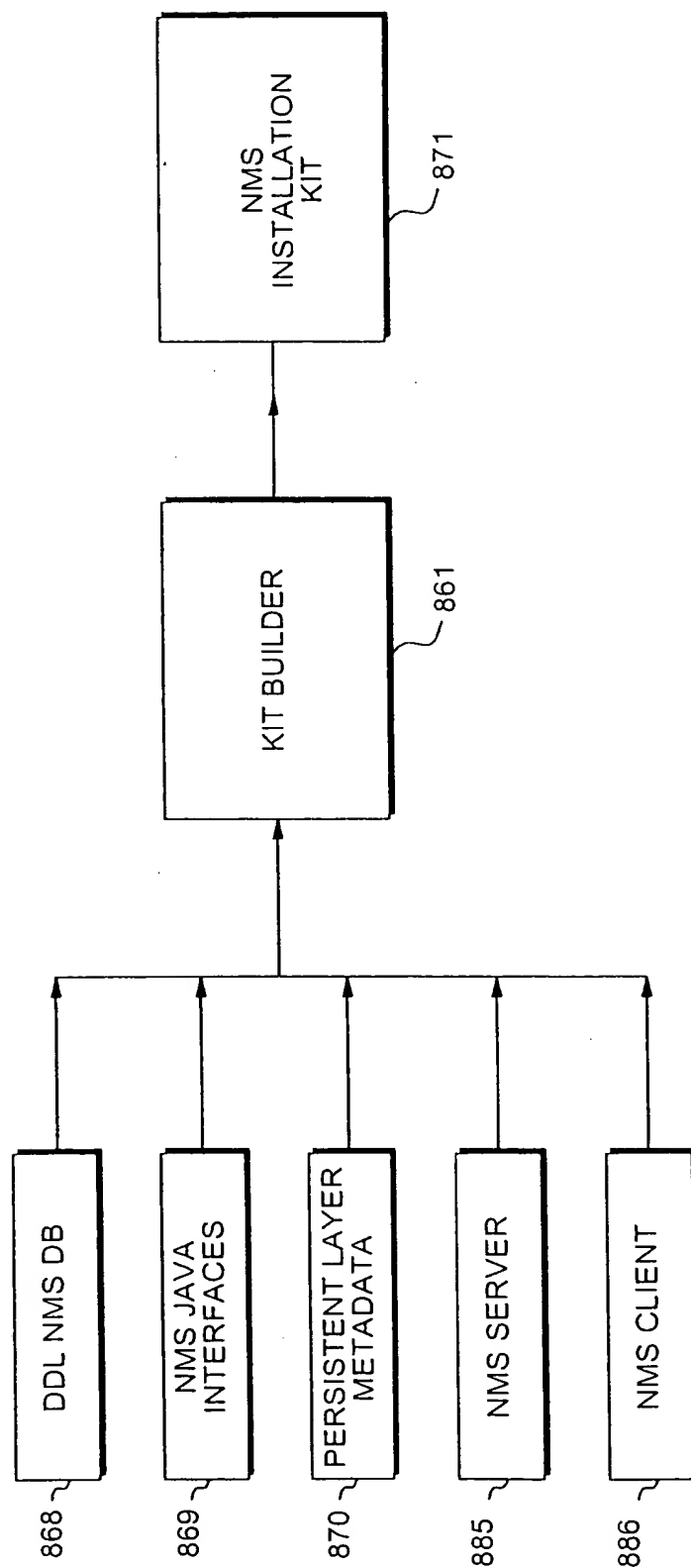


FIG. 3F

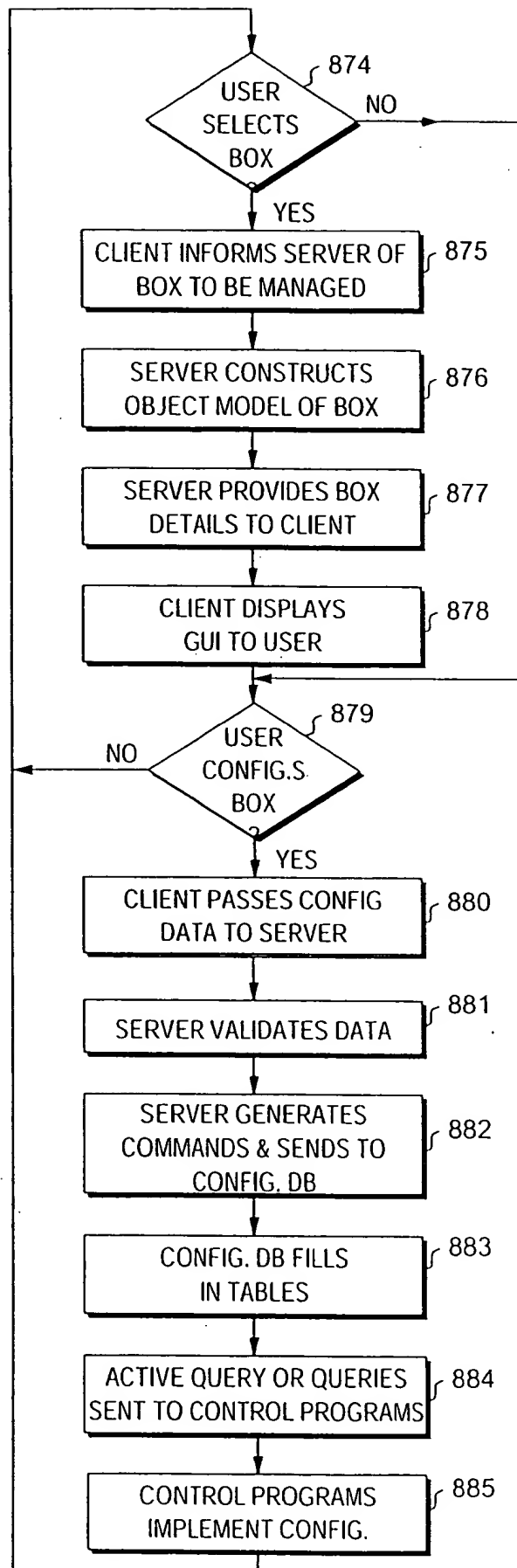


FIG. 3G

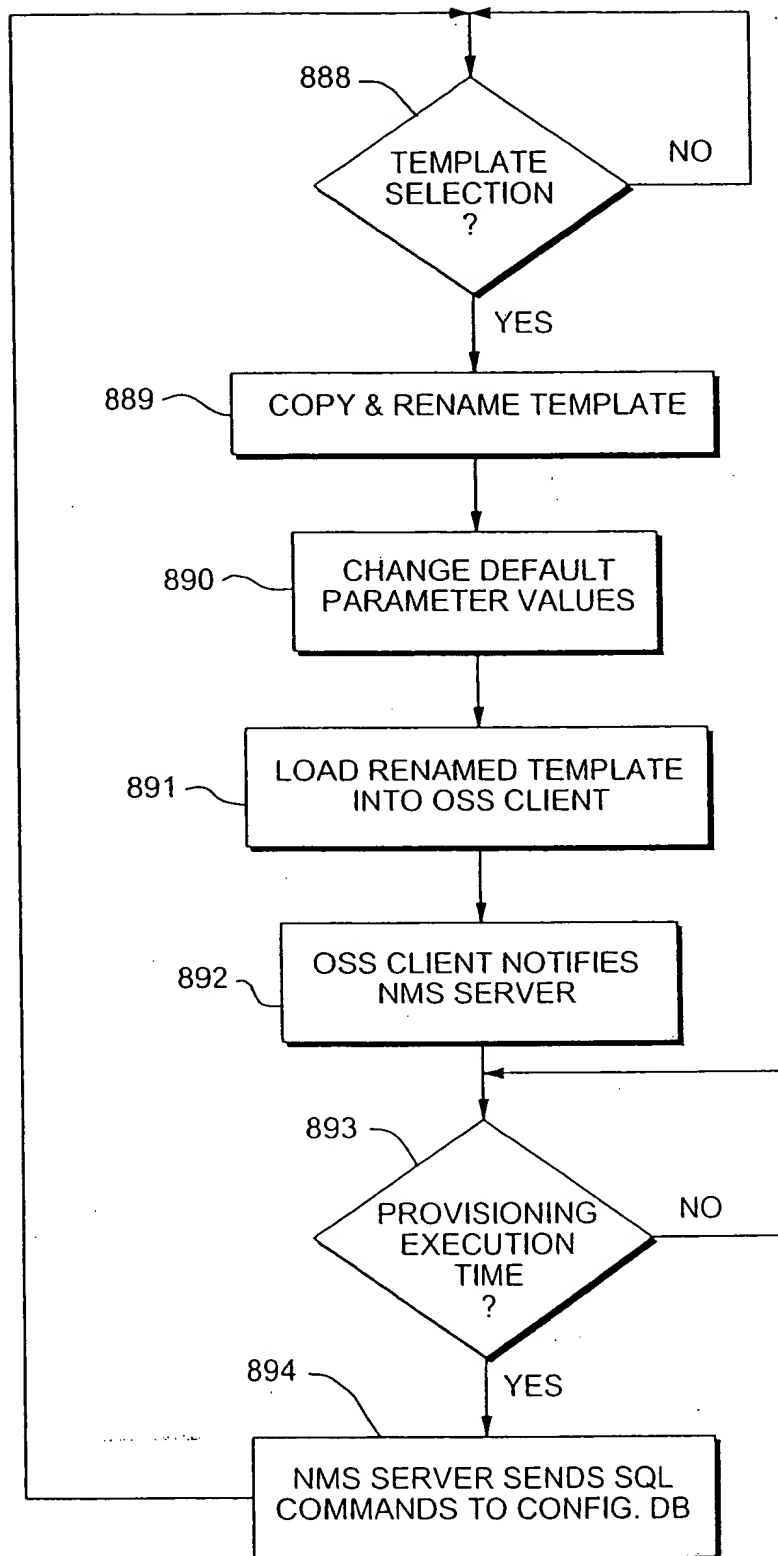


FIG. 3H

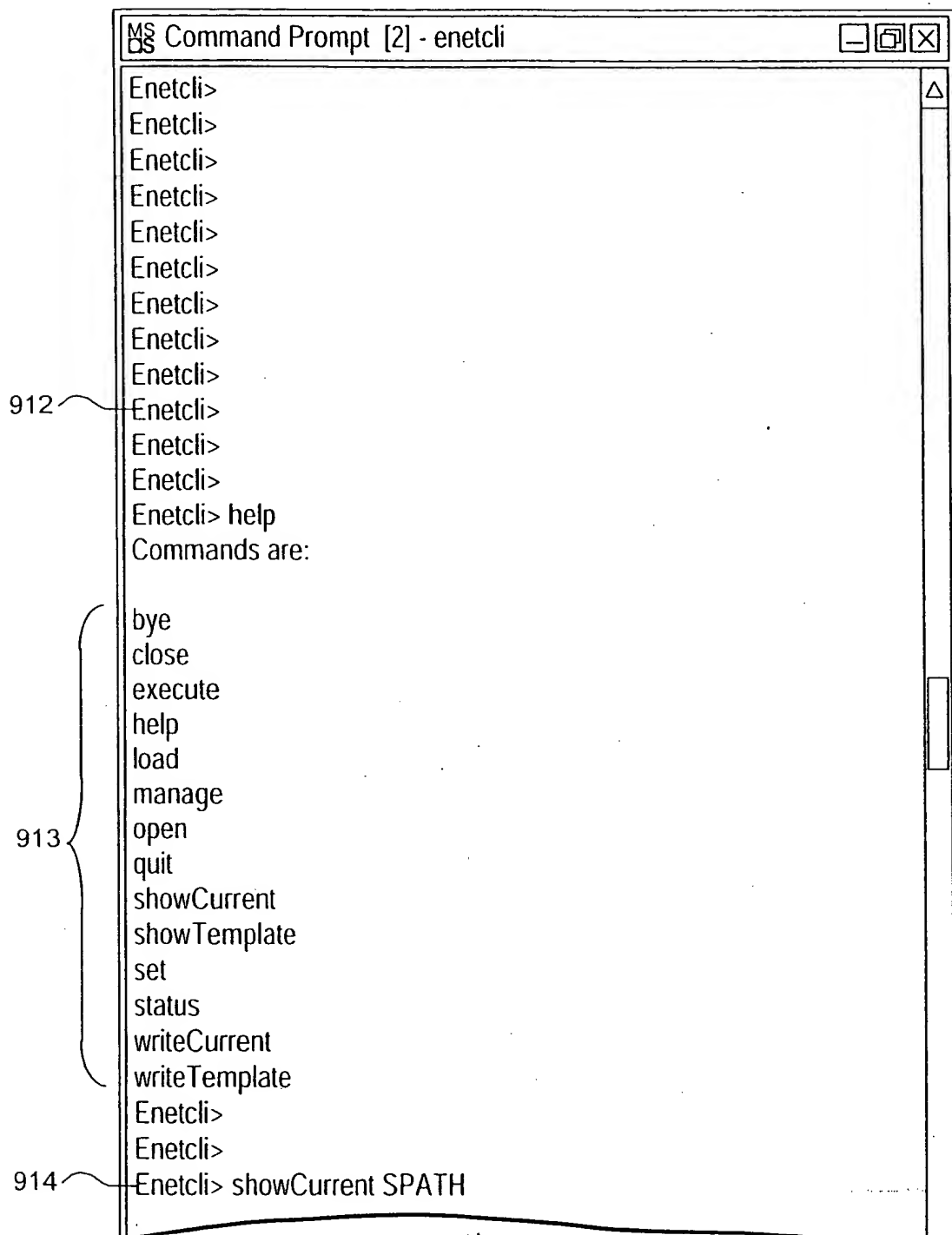


FIG. 3I CONTINUED

FIG. 3I

FROM FIG. 3I

```
ATMIfName=ATMIf11/1/1
Concatenated=false
Name=Path11/1/1
Operant=SPATH
Operator=Create
PortID=1
Position=1
Service=ATM
ShelfID=11
SlotID=1
Type=Terminated
Version=V1_1_0_0
Width=STS3
Enetcli>
Enetcli>
Enetcli>
916 Enetcli> showTemplate SPATH
ATMIfName=<String>[TerminatedOnly]
Concatenated=<true:false>
Name=<String>
Operant=SPATH
Operator=<Create:Replace:Update:Delete>
PortID=<Integer><1-16>
917 Position=<Integer>
Service=<None :ATM>
ShelfID=<11[top],13[bottom]>
SlotID=<Integer><1-8>
Type=<switched :Terminated>
Version=V1_1_0_0
Width=<STS1:STS3:STS12:STS48>
Enetcli>
Enetcli>
918 Enetcli> status
919 Not currently connected to server
920 Supporting templates: CONTROL, PVC, SPATH, SPVC,TD, and VAIF
Enetcli>
```

FIG. 3I CONTINUED

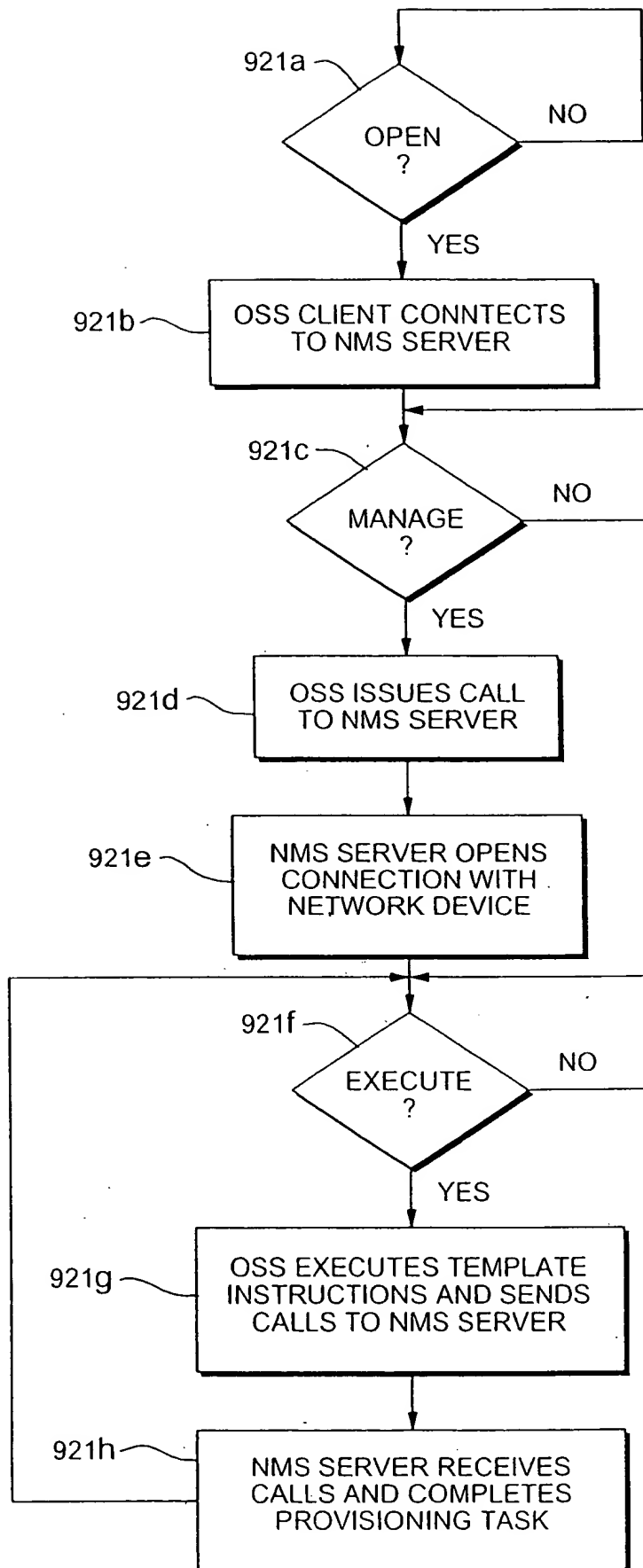


FIG. 3J

```
MS Command Prompt [2] - enetcli
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
922 Enetcli> showCurrent CONTROL
input=Q:\nms\com\equipecom\nms\utils\enetcli
Interactive=false
Operant=CONTROL
923d Operator=Manage
923f Output=Q:\nms\com\equipecom\nms\utils\enetcli
923c Password=None
923e System=192.168.9.202
923b User=None
923g Version=V1_1_0_0
923a Server=localhost
Enetcli>_
```

FIG. 3K

BATCH

924



Operant=BATCH

Operator=Execute

Version=V1_1_0_0

924a ~ TASK1=execute-SPATH

924b ~ TASK2=execute-PVC

924c ~ TASK3=execute-SPVC

924d ~ TASK4=load-SPVC-spvc1

924e ~ TASK5=execute-SPVC

924f ~ TASK6=load-SPVC-spvc2

924e ~ TASK7=execute-SPVC

.

.

924g ~ TASK50=set-SPATH-PortID-3

924h ~ TASK51=execute-SPATH

924i ~ TASK52=set-SPATH-SlotID-2

924j ~ TASK53=execute-SPATH

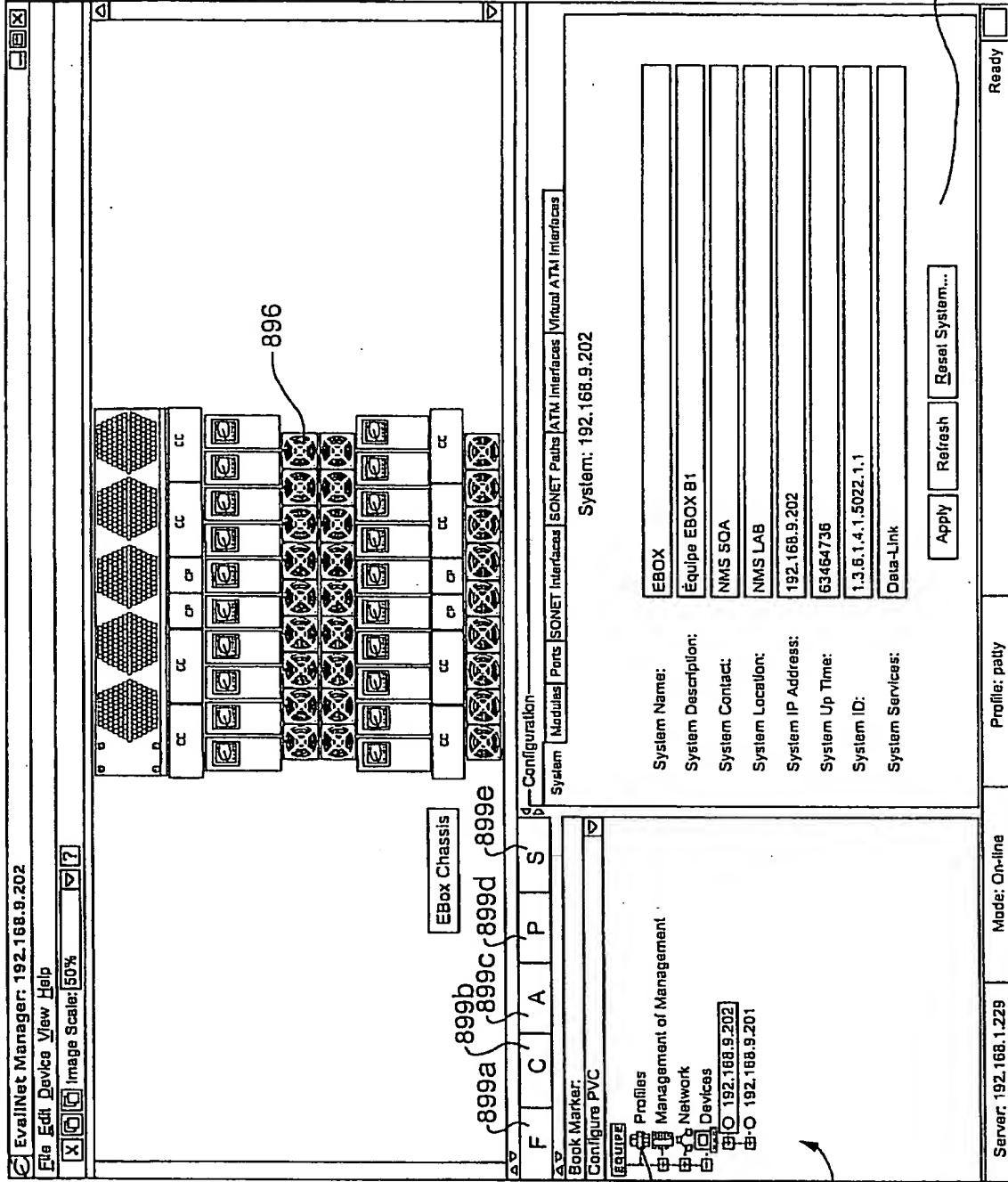
FIG. 3L

925

Operant=BATCH
Operator=Execute
Version=V1_1_0_0
925a ~ TASK1=execute-CONTROL
925b ~ TASK2=execute-SPATH
925c ~ TASK3=set-SPATH-PortID-3
925d ~ TASK4=execute-SPATH
.
.
.
925e ~ TASK61=set-CONTROL-System-192.168.9.201
925f ~ TASK62=execute-CONTROL
925g ~ TASK63=execute-SPATH
.
.
.
925h ~ TASK108=close
925i ~ TASK109=set-CONTROL-Server-Server1
925j ~ TASK110=set-CONTROL-System-192.168.8.200
925k ~ TASK111=execute-CONTROL
925l ~ TASK112=execute-SPATH
.
.
.

FIG. 3M

895



902

898

897

FIG. 4A

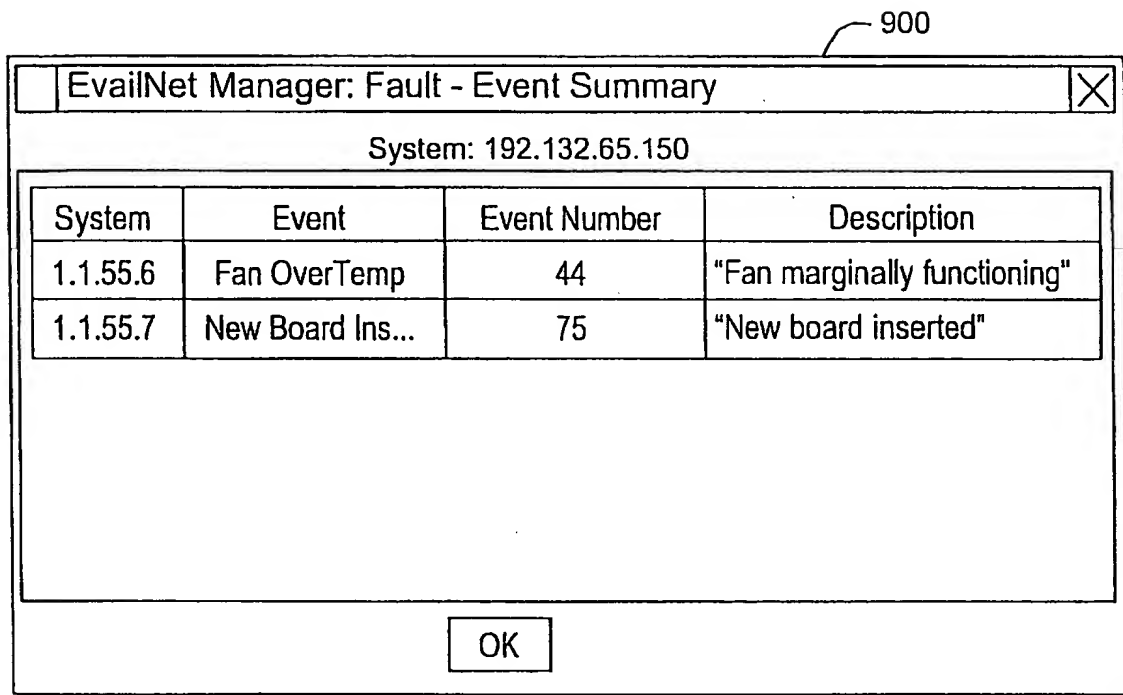


FIG. 4B

EvalNet Manager: 192.168.9.202

File Edit Devices View Help

X

Q

Q

Q

?

Image Scale: 50%

Security

SHMP Configuration Changes

System: 192.168.9.202

SHMP Community Strings

READ Community:

public

READWRITE Community:

public

Command Line Interpreter (CLI)

Administrator Password:

root

Apply

899a

899b

899c

899d

899e

F

C

A

P

S

Back Marks

Configure PVC

EQUIP

Profiles

Management of Management

Server: 192.168.9.202

Mode: On-line

Profile:

Ready

FIG. 4C

903

Profiles

System: 192.132.60.150

Profile Manager

Name	Description	Security Level	Timeout	Primary Server	Secondary Server
Joe	Joe Whitehouse	Admin	15	192.168.1.32	192.168.1.32
Wayne	Wayne Arena	Provisioner	15	TeamServer1:192...	TeamServer2:192.168.1.32

Add

Delete...

Refresh

Copy

904

905

906

FIG. 4D

907

General

Username: Kevin 908a

Description: Kevin Snow user account 908e

Group Name: Equipe 908f

Group Level Access: ☒ 908d

Password: ***** 908b

Confirm Password: ***** 908c

Policies

☒ User Cannot Change Password 908h

☐ Account Disabled 908i

☒ User Can Add Devices 908j

User Session Timeout: 15 908k Minutes

TO
FIG. 4E Continued

FIG. 4E

FROM
FIG. 11B

Servers

Primary Server:

Primary Server Port:

Secondary Server:

Secondary Server Port:

192.168.1.220

6500

192.168.1.221

6503

Devices

Device	READ	READWRITE	Retry	Timeout
192.168.9.202	public	equipe	3	3
192.168.9.205	public	equipe	3	3
192.168.9.216	public	equipe	3	3

Add

Delete

908g

908p

908q

908r

908s

908t

908l

908n

908m

908o

FIG. 4E Continued

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<div> <div>General</div> <div>Policies</div> <div>Servers</div> <div>Devices</div> </div>			
Username:	Kevin		
Description:	Kevin Snow user account		
Customer Name:	Equipe		
Group Level Access:	<input checked="" type="checkbox"/>		
Password:	*****		
Confirm Password:	*****		
<div> <div>908t ~</div> <div>OK</div> <div>Cancel</div> </div>			

FIG. 4F

[-] [] [X]

General Policies Servers Devices

☐ User Cannot Change Password

☐ Account Disabled

☒ User Can Add Devices

User Session Timeout: 15 Minutes

908t ~ OK Cancel

FIG. 4G

—

□

×

General

Policies

Servers

Devices

Primary Server:

Primary Server Port:

Secondary Server:

Secondary Server Port:

192.168.1.220

6500

192.168.1.205

6503

908t ~

OK

Cancel

FIG. 4H

General

Policies

Servers

Devices

Device	READ	READ/WRITE	Retry	Timeout	Trap Port
192.168.9.202	public	equipe	3	3	162
192.168.9.205	public	equipe	3	3	162
192.168.9.216	public	equipe	3	3	5012

Add

Delete

908t

OK

Cancel

FIG. 4I

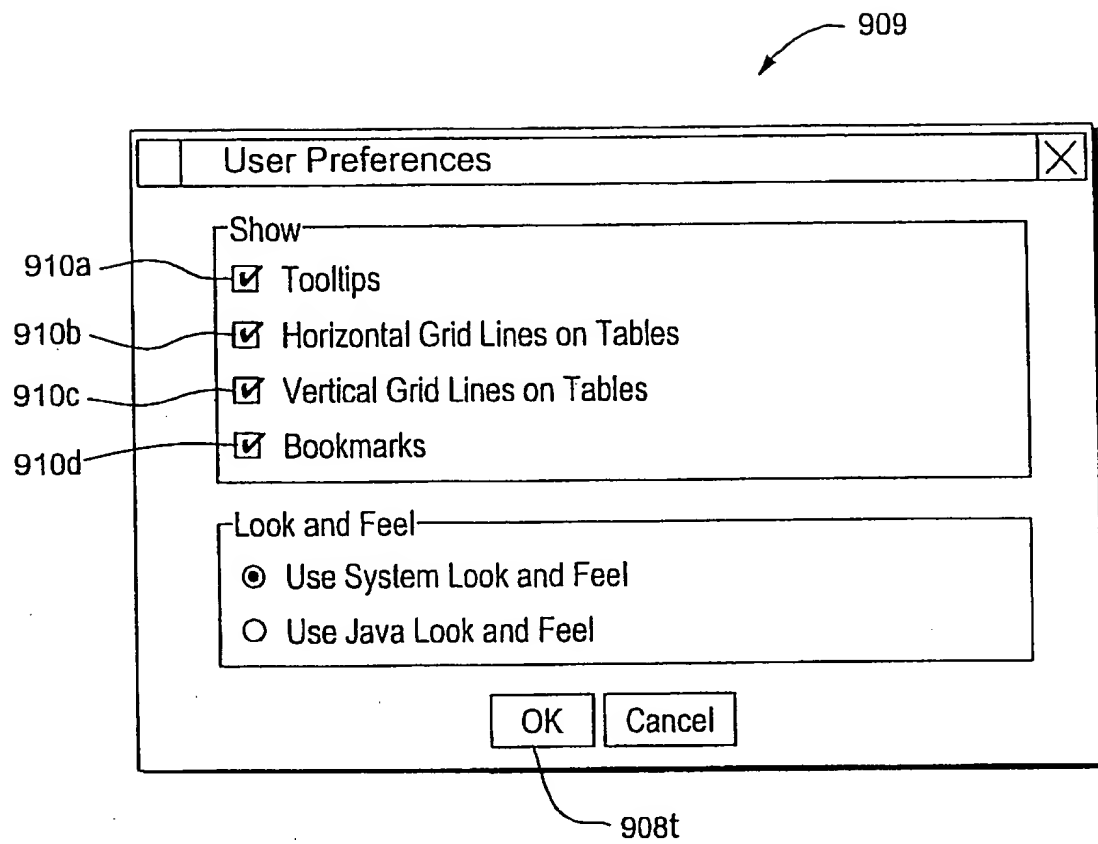


FIG. 4J

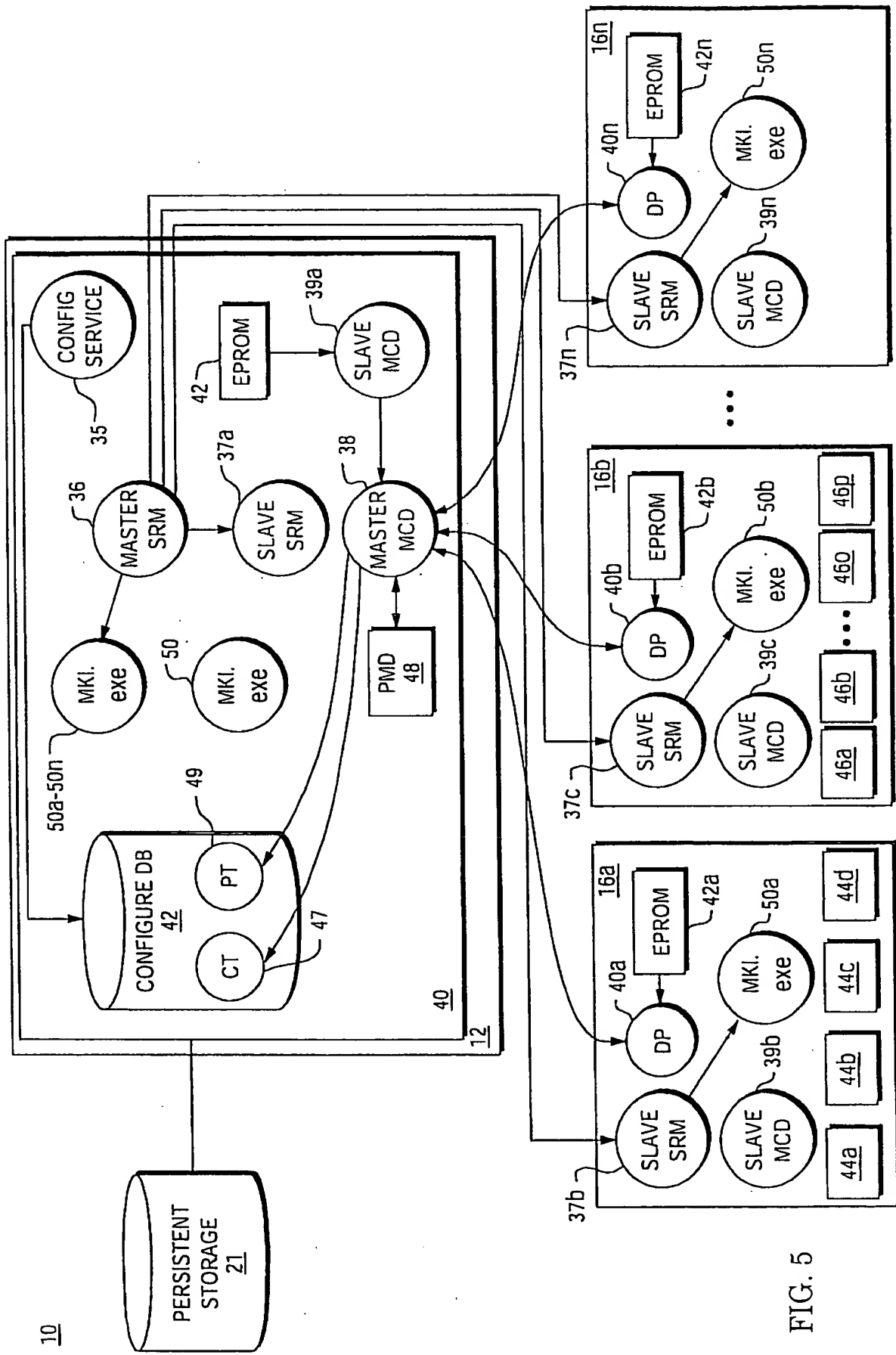


FIG. 5

CARD TABLE 47

	PID	CWD TYPE	VERSION NO.	SLOT NO.	...
16a	500	0XF002	3	1	
16b	501	0XF002	4	2	
	⋮	⋮	⋮	⋮	⋮
16e	505	0X6002	1	5	
	⋮	⋮	⋮	⋮	⋮
16n	513	0XF002	1	12	
	⋮	⋮	⋮	⋮	⋮

FIG. 6

PORT TABLE 49.

	PID	PORT TYPE	VERSION NO.	SLOT NO.	...
44a	1500	00620	1	1	
44b	1501	00620	1	1	
44c	1502	00620	1	1	
44d	1503	00620	1	1	
44a	1504	00820			
46a	⋮	⋮	⋮	⋮	⋮
	1600	00620	1	8	
	⋮	⋮	⋮	⋮	⋮

FIG. 7

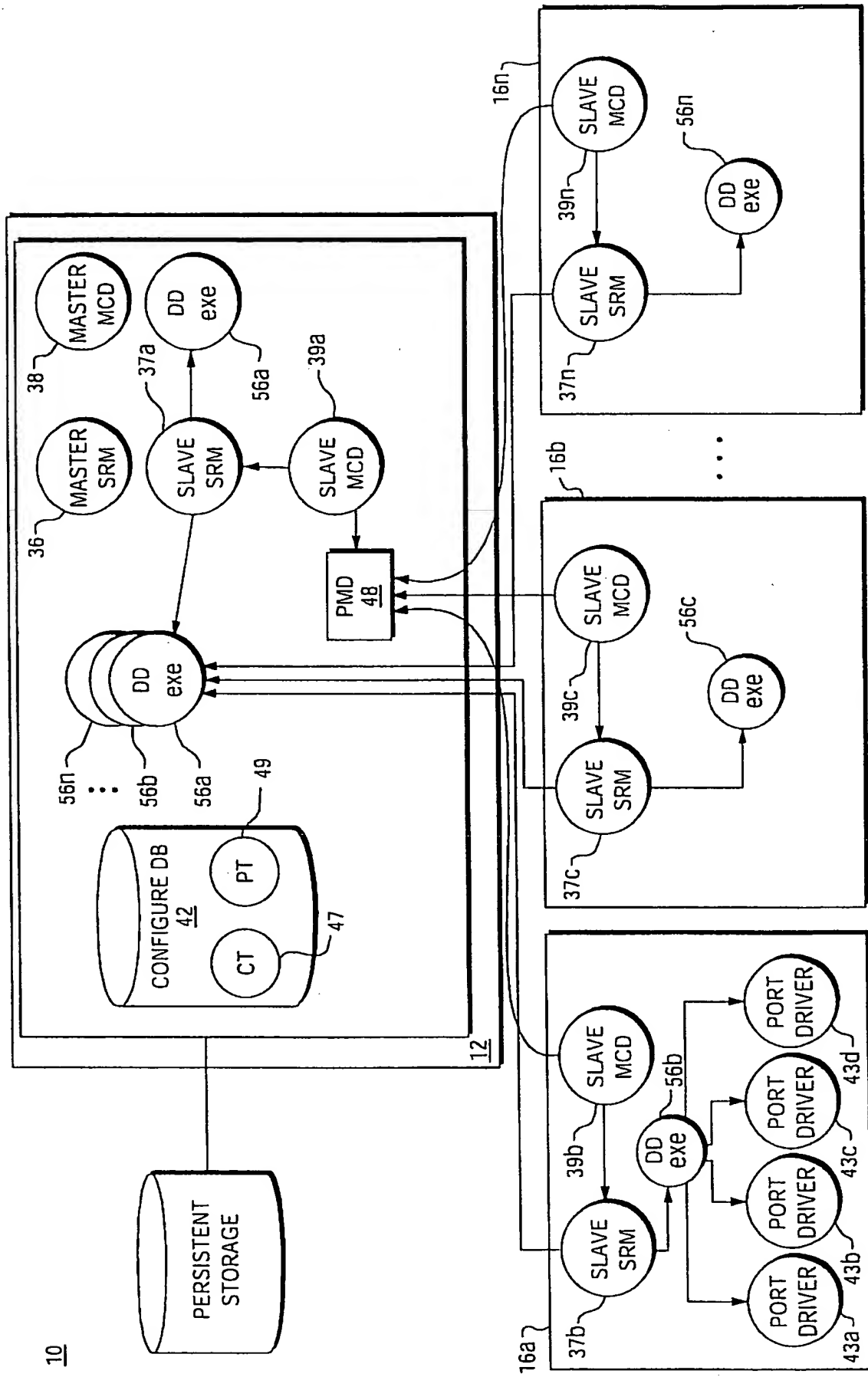


FIG. 8

FIG. 9

The diagram illustrates a system architecture for a network management system (NMS) and its components. The system is organized into several main functional blocks:

- Top Level (62):** Contains the **NMS DB 61** (database) and **NMS 60** (network management system).
- Processor and Data Flow (24):** The **PROCESSOR 24** is connected to the NMS DB 61 and the NMS 60. It also interacts with the **DATA SUM 414**, **BINARY DATA 416**, and **CLASS FILE 410**.
- Configuration and Management (40):** This block includes the **CONFIGURE DB 42**, **SET 76**, **LPCT 100**, **LPPT 101**, **PT 49**, **CT 47**, **ATMGT 108**, **ATMIF 44**, and **SLR 128a**. It is connected to the **PROCESSOR 24** and the **PERSISTENT STORAGE 21**.
- Persistent Storage (21):** A large storage unit that stores data and is connected to the **CONFIGURE DB 42** and the **SLR 128a**.
- Master and Slave SRM (36, 37b):** The **MASTER SRM 36** is connected to the **PROCESSOR 24** and the **CONFIGURE DB 42**. It also interacts with the **DATA SUM 414**, **BINARY DATA 416**, and **CLASS FILE 410**. The **SLAVE SRM 37b** is connected to the **MASTER SRM 36** and the **CONFIGURE DB 42**.
- Management Subsystems (412):** Includes **MNG. SUBSYS. 412**, **DATA SUM 414**, **BINARY DATA 416**, and **CLASS FILE 410**.
- ATM Control and Interface (135, 138):** The **atm cntrl.exe 135** and **atm.exe 138** are connected to the **MASTER SRM 36** and the **CONFIGURE DB 42**.
- Slave SRM (370):** A **SLAVE SRM 370** is connected to the **MASTER SRM 36** and the **CONFIGURE DB 42**.
- ATM Control and Interface (136):** The **ATM Cntrl 136** is connected to the **SLAVE SRM 37b** and the **CONFIGURE DB 42**.
- ATM Control and Interface (110, 111, 112, 113):** A series of **ATM 110**, **ATM 111**, **ATM 112**, and **ATM 113** are connected to the **ATM Cntrl 136** and the **CONFIGURE DB 42**.
- ATM Control and Interface (44a, 44b, 44c, 44d):** A series of **44a**, **44b**, **44c**, and **44d** are connected to the **ATM 110**, **ATM 111**, **ATM 112**, and **ATM 113**.
- ATM Control and Interface (96a, 96b, 96n):** A series of **SEM 96a**, **SEM 96b**, and **SEM 96n** are connected to the **ATM 110**, **ATM 111**, **ATM 112**, and **ATM 113**.
- ATM Control and Interface (46a, 46b, 46c, 46f):** A series of **46a**, **46b**, **46c**, and **46f** are connected to the **SEM 96a**, **SEM 96b**, and **SEM 96n**.
- ATM Control and Interface (68a, 68b, 68c, 68n):** A series of **68a**, **68b**, **68c**, and **68n** are connected to the **SEM 96a**, **SEM 96b**, and **SEM 96n**.

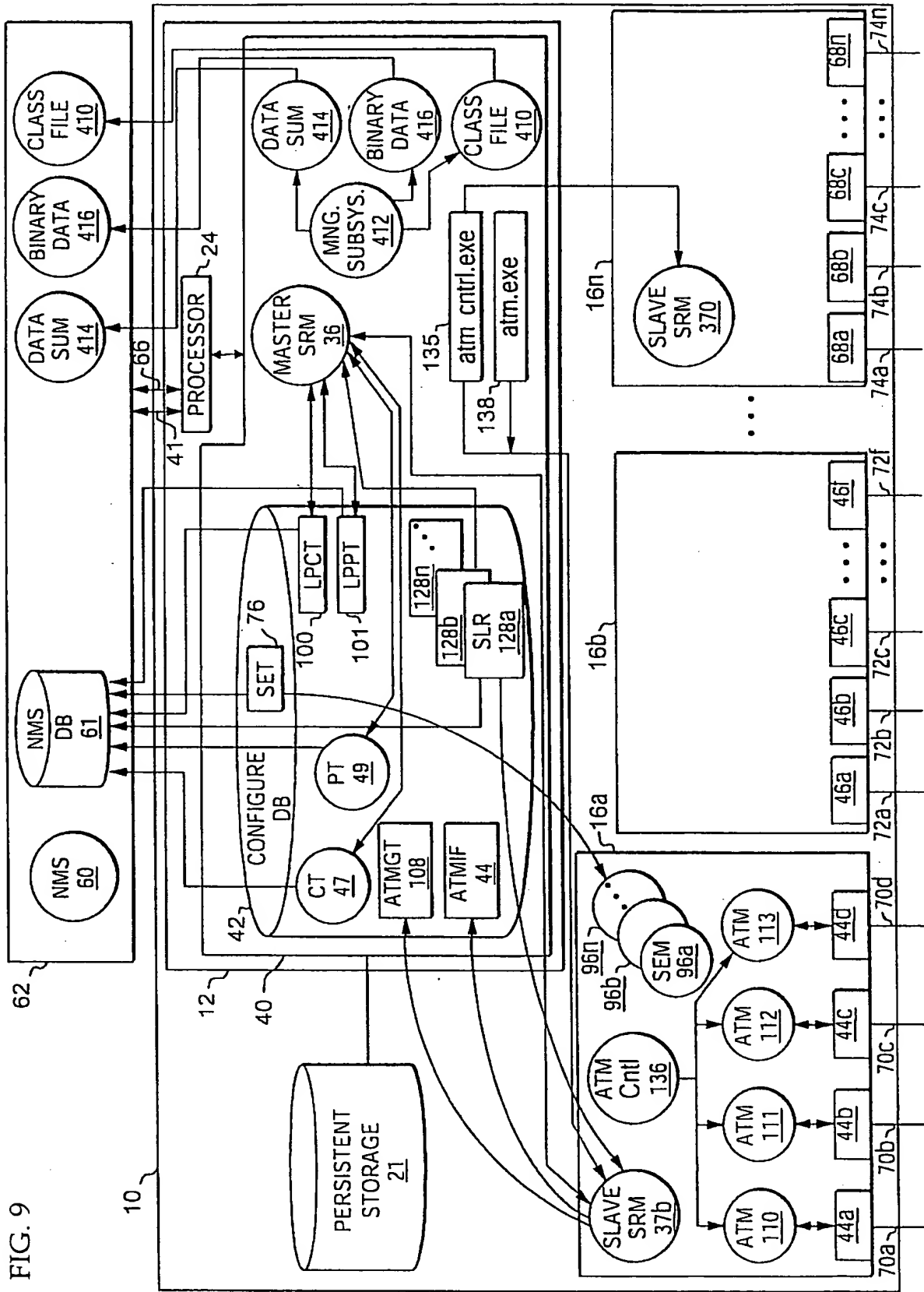


FIG. 10

SERVICE ENDPOINT TABLE 76

	SERVICE ENDPOINT #	PORT PID
78	1	1500
80	2	1501
82	3	1501
84	4	1501
86	5	1502
88	6	1502
90	7	1503
92	8	1503
94	9	1503
168	10	1502
	⋮	⋮
	⋮	⋮

FIG. 11A

LOGICAL TO PHYSICAL CARD TABLE 100

	98 LID	102 PRIMARY PID	104 BACK-UP PID
106	30	500	513
109	31	501	513
	⋮	⋮	⋮
	⋮	⋮	⋮
	⋮	⋮	⋮

FIG. 11B

LOGICAL TO PHYSICAL PORT TABLE 101

	98 LID	102 PRIMARY PID	104 BACK-UP PID
107	40	1500	1600
	⋮	⋮	⋮
	⋮	⋮	⋮
	⋮	⋮	⋮

FIG. 14C

FIG. 12

ATM GROUP TABLE 108

GROUP #	CARD LID	...
1	30	
2	30	
3	30	
4	30	

FIG. 13

ATM INTERFACE TABLE 114

ATM IF	ATM GROUP	SE	...
1	1	1	
2	1	1	
3	1	1	
4	2	2	
5	2	3	
6	2	4	
⋮	⋮	⋮	⋮
12	3	10	
⋮	⋮	⋮	⋮

170

FIG. 14

SOFTWARE LOAD RECORD 128a

130	CONTROL SHIM	LID	132
134	atm-cntl.exe	30	

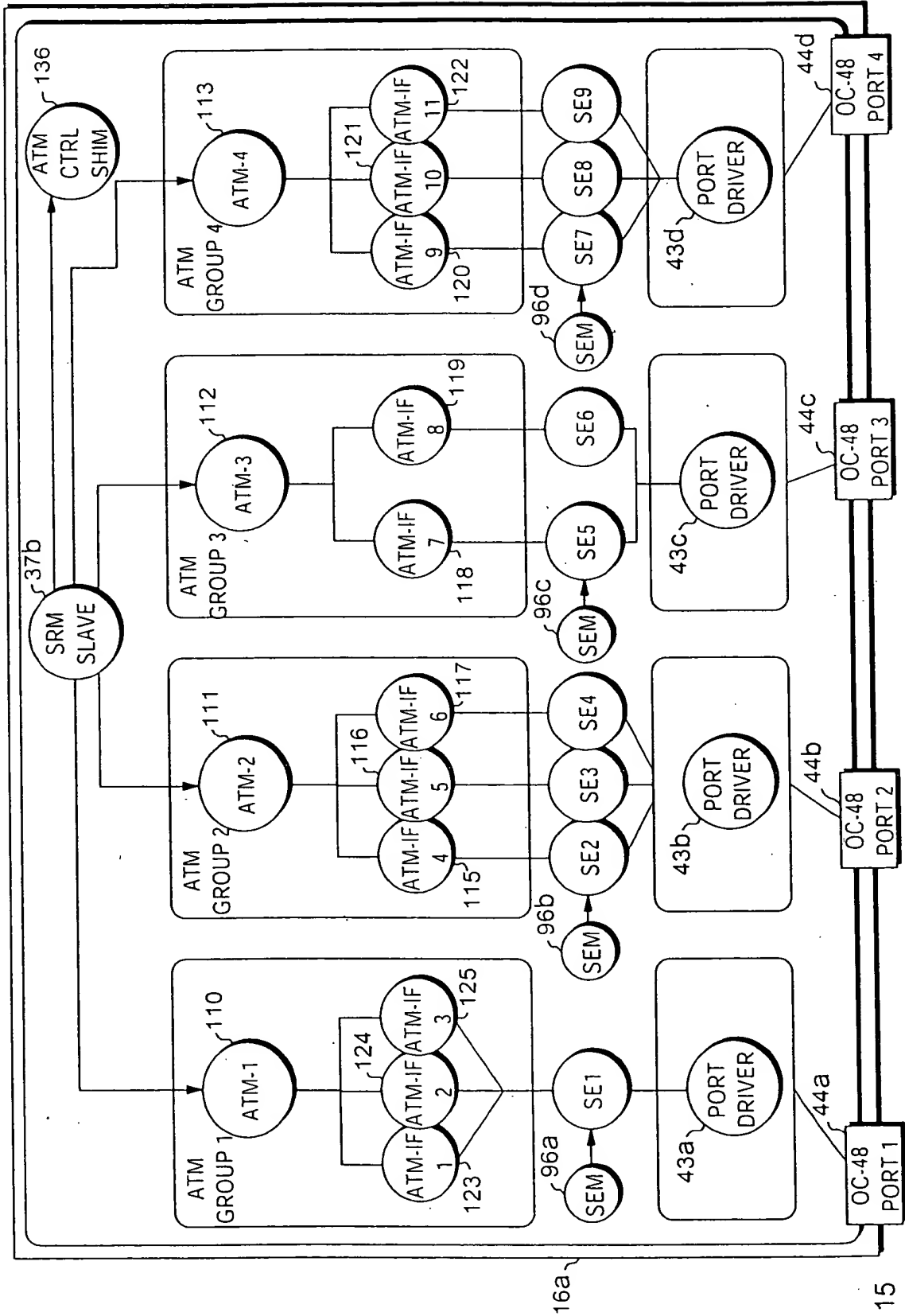


FIG. 15

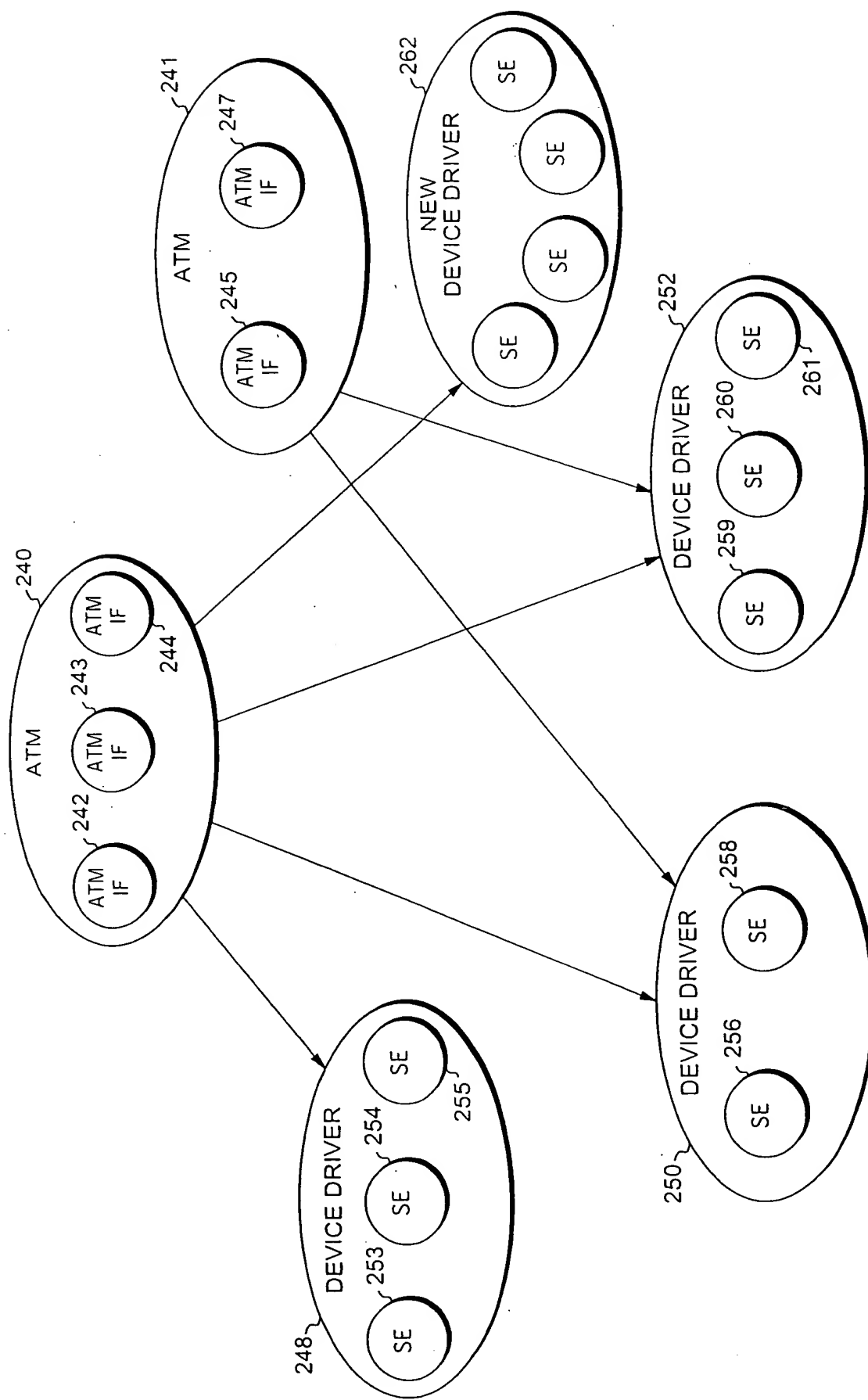


FIG. 16A

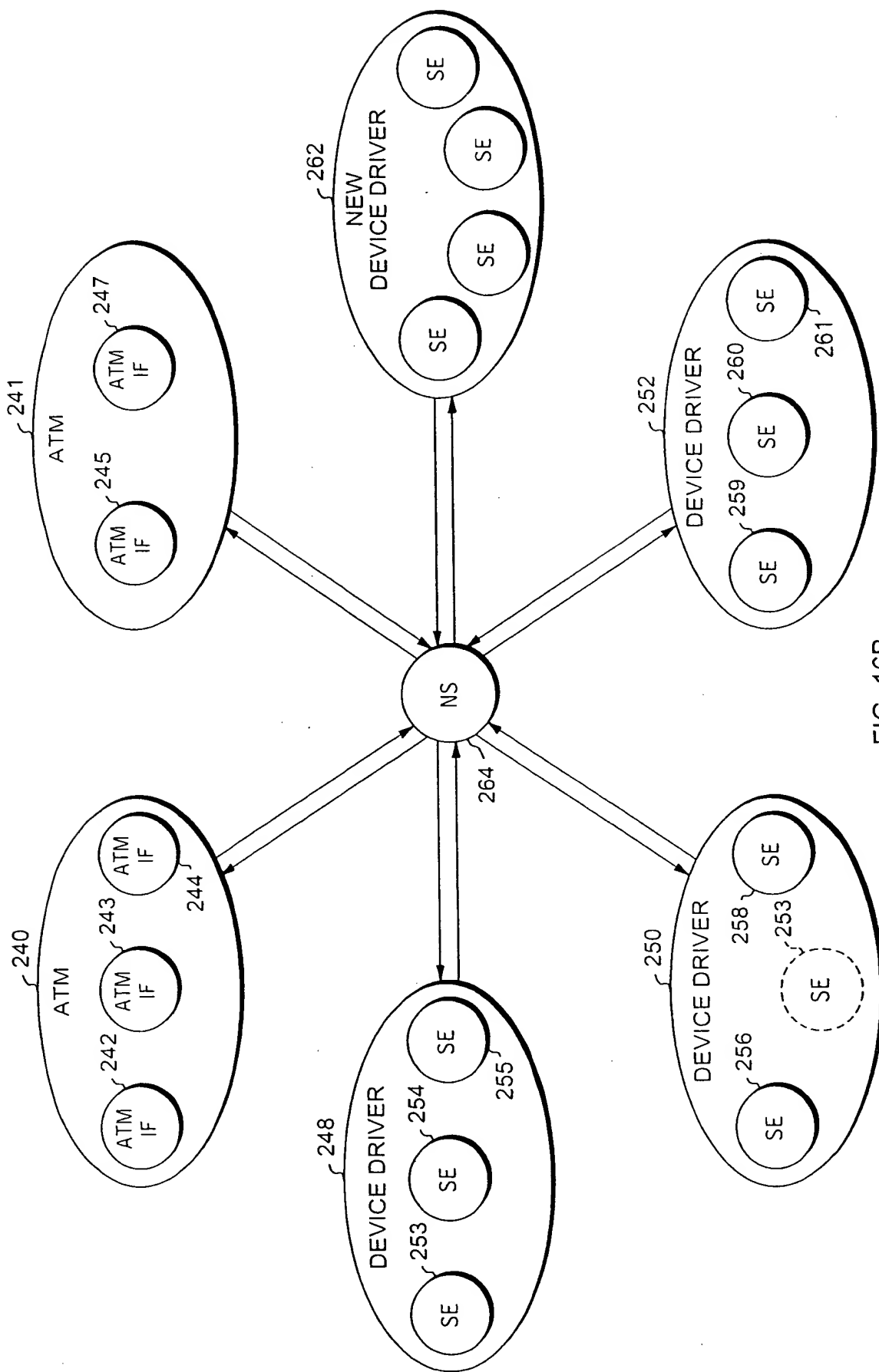


FIG. 16B

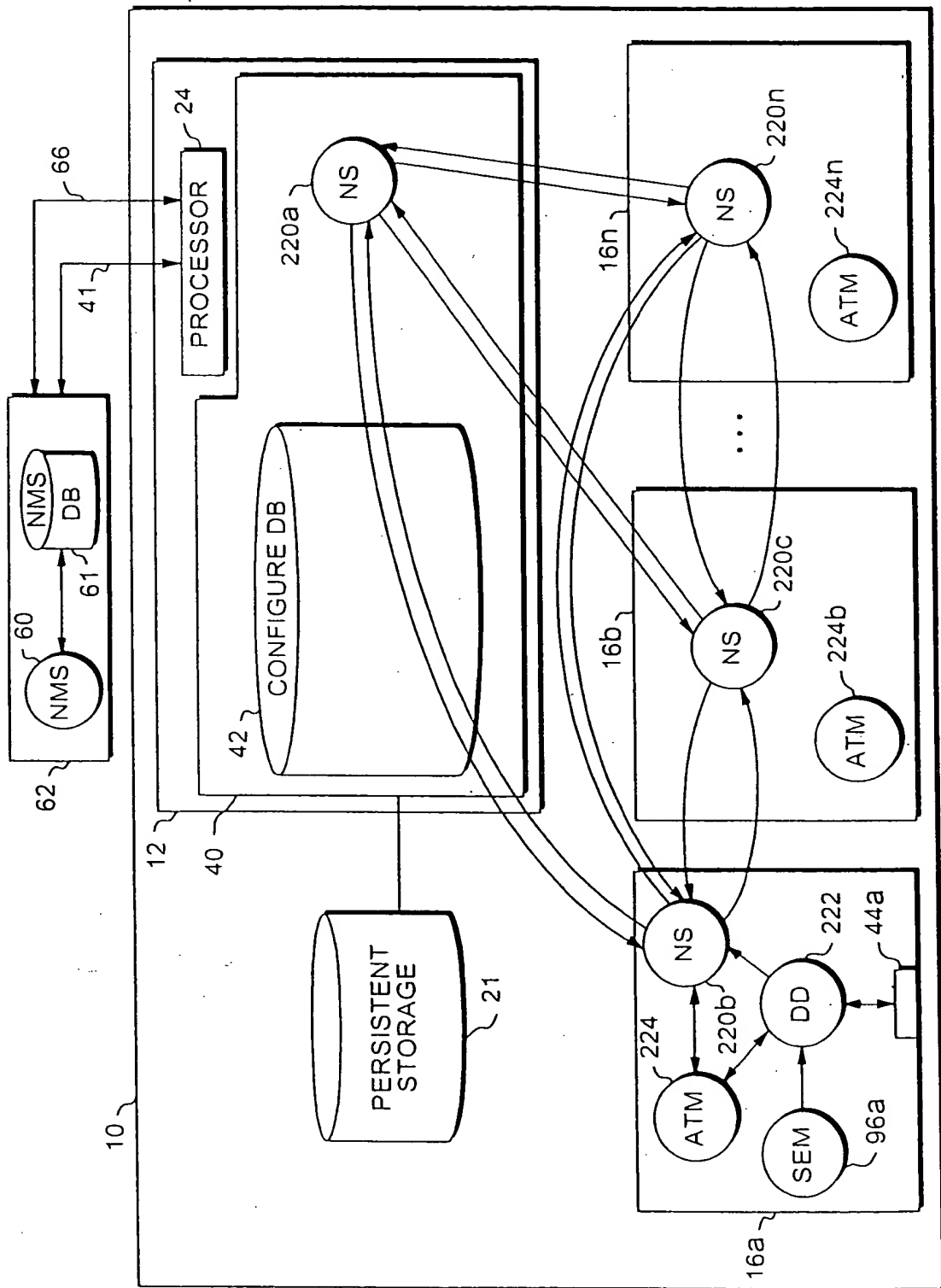


FIG. 16C

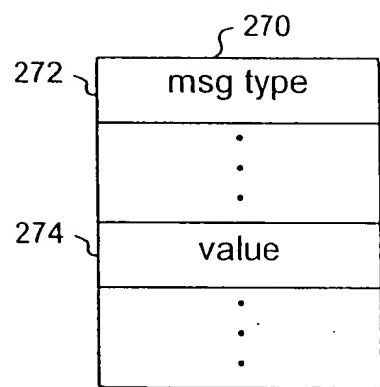
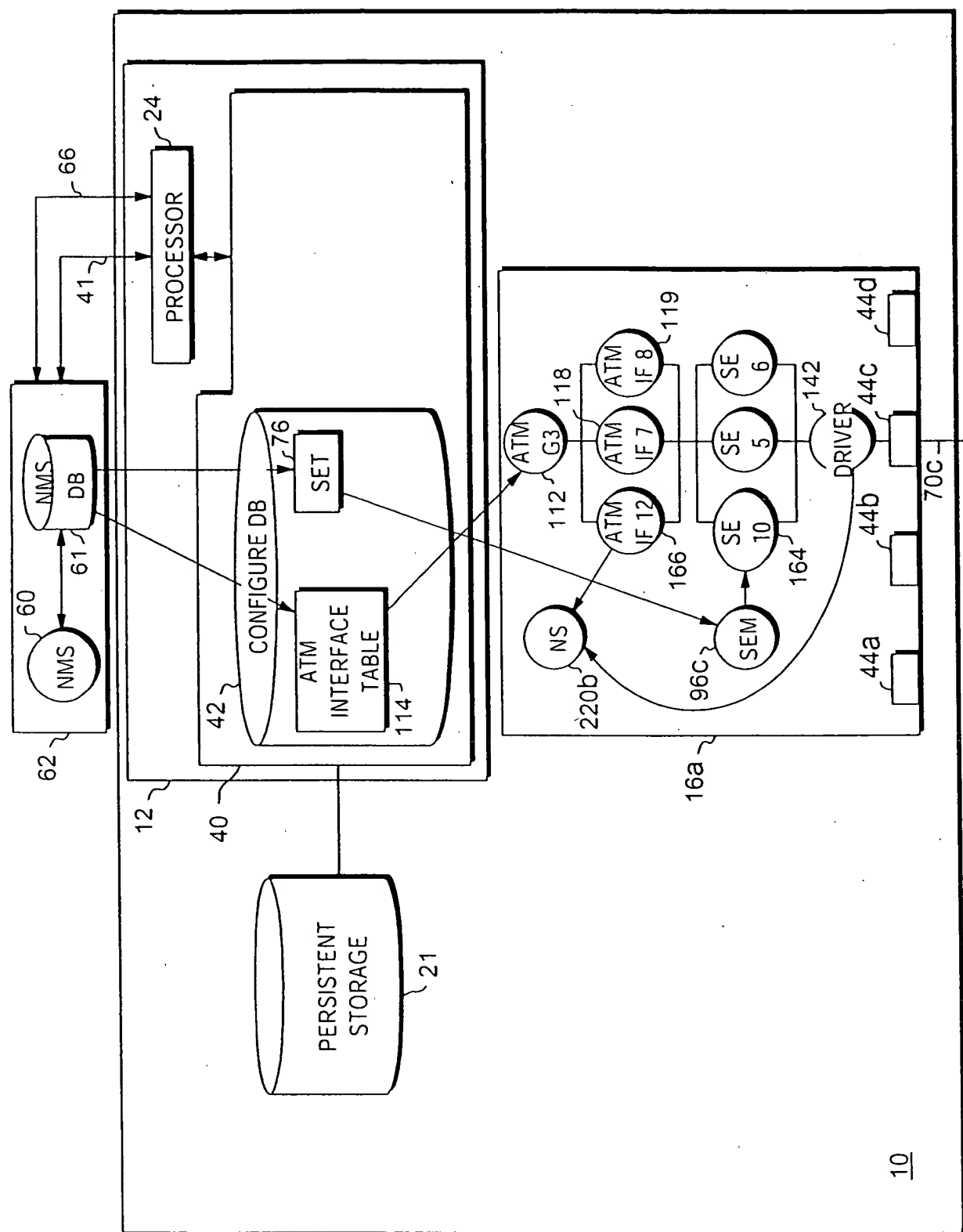


FIG. 16D



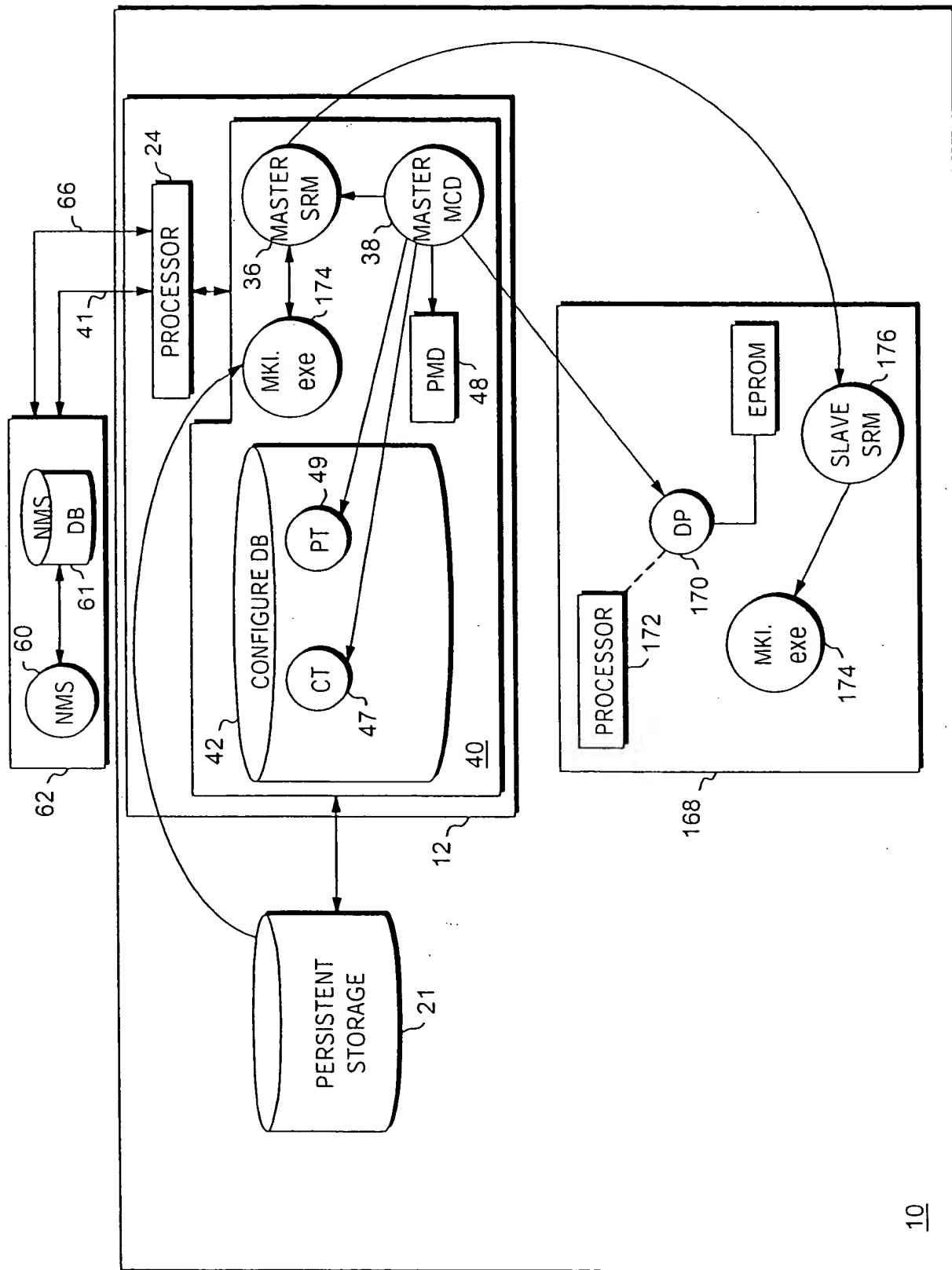


FIG. 18

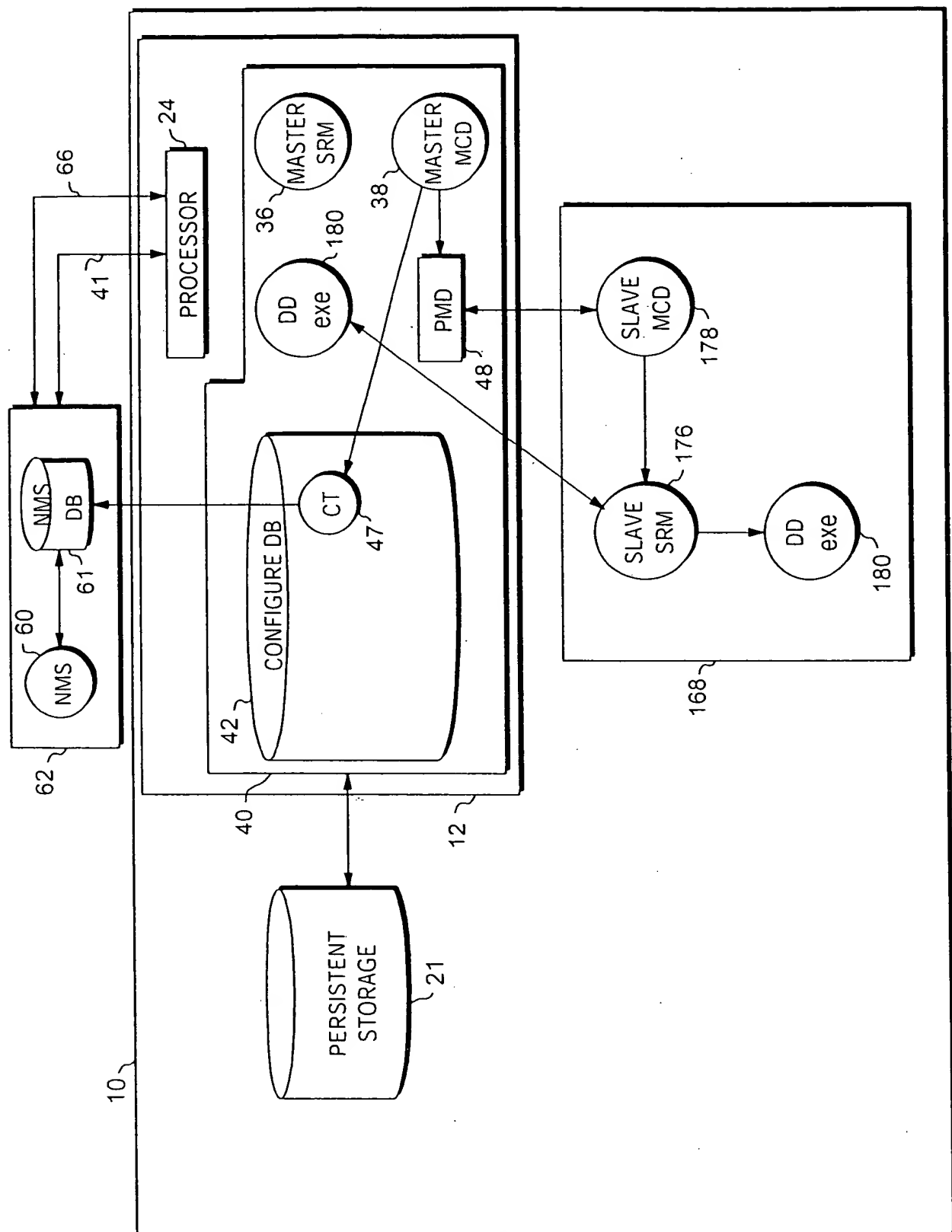


FIG. 19

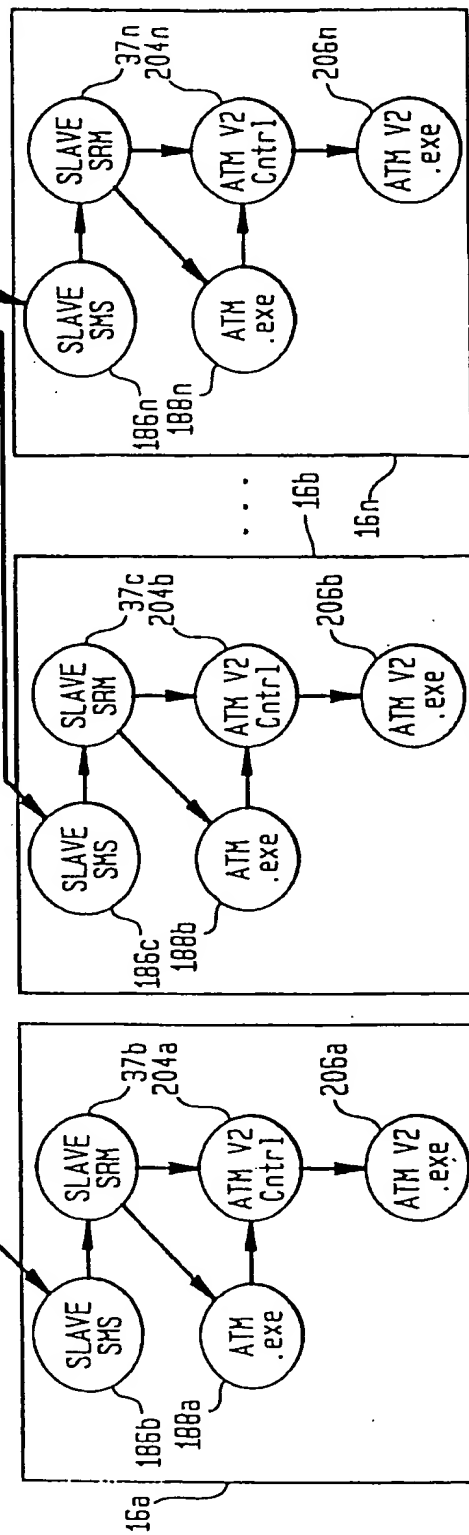
[illegible]

FIG. 21

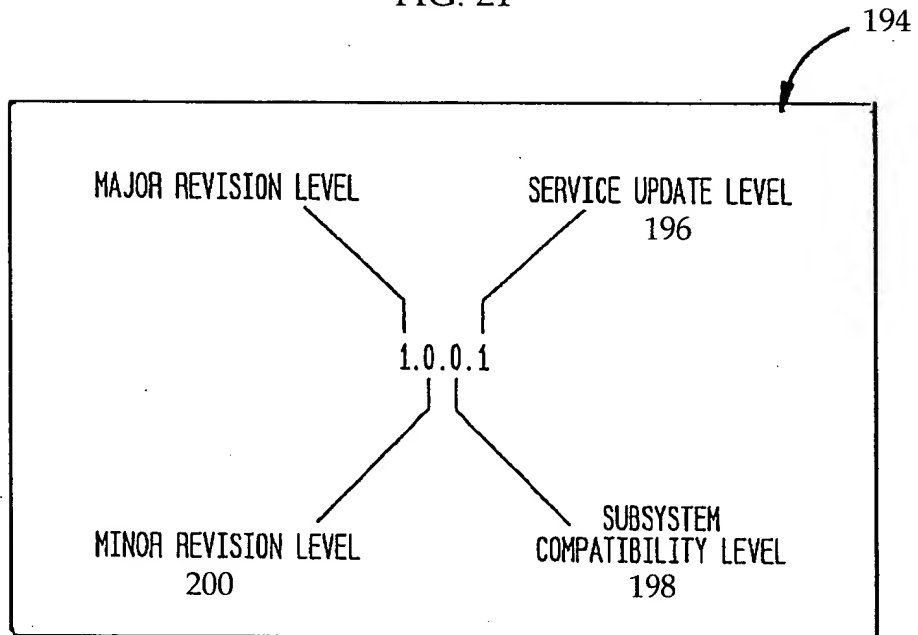
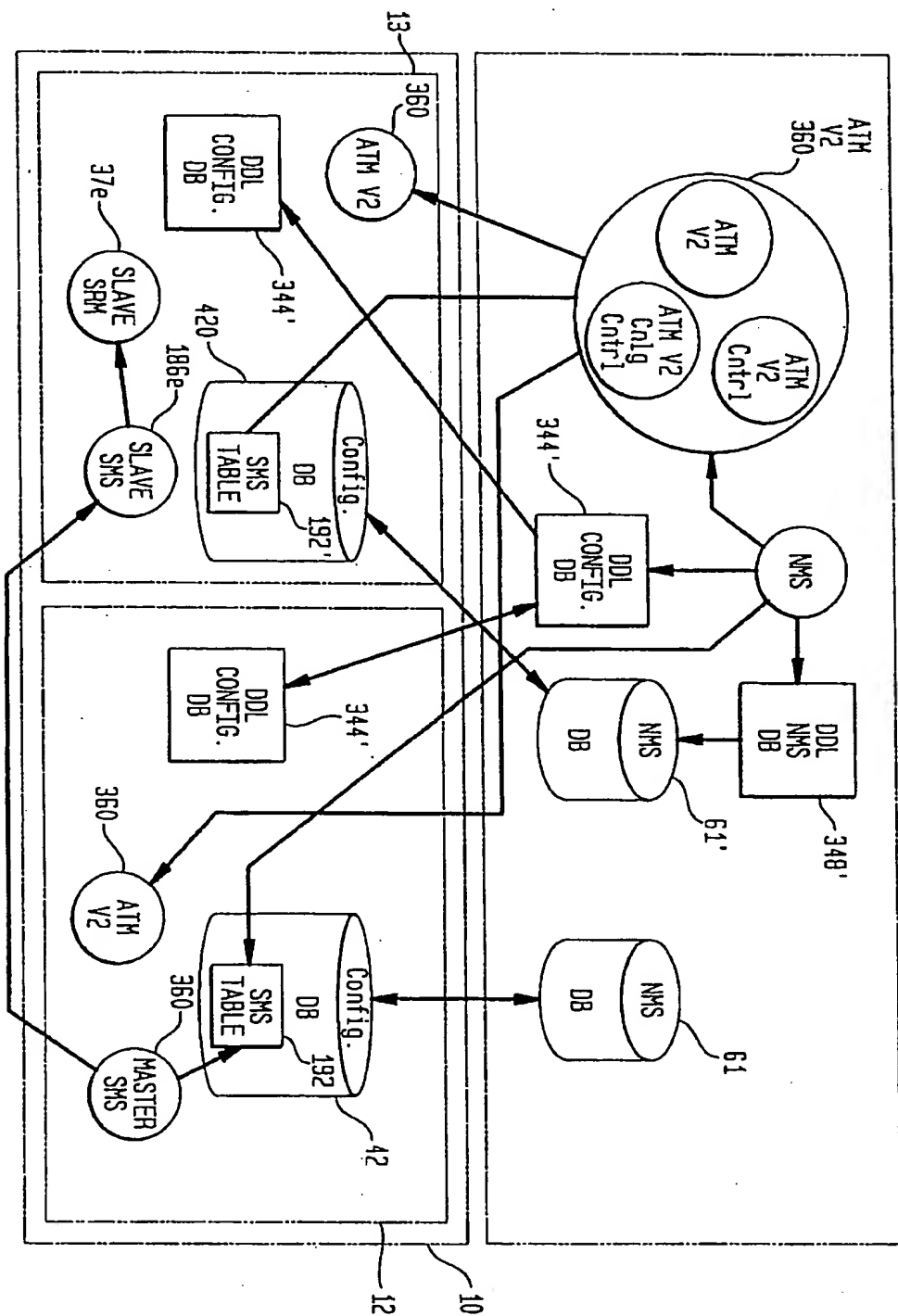


FIG. 22



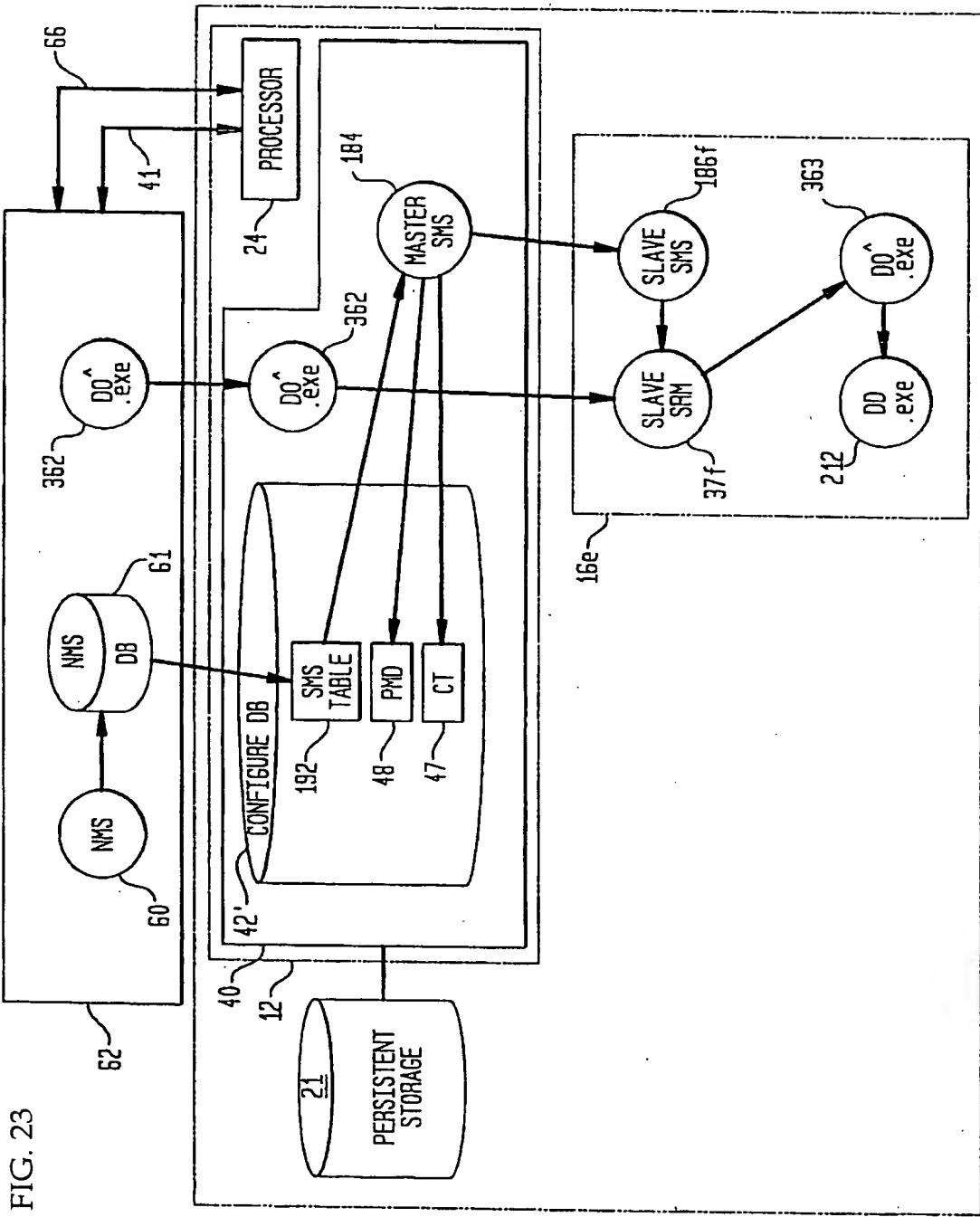


FIG. 23

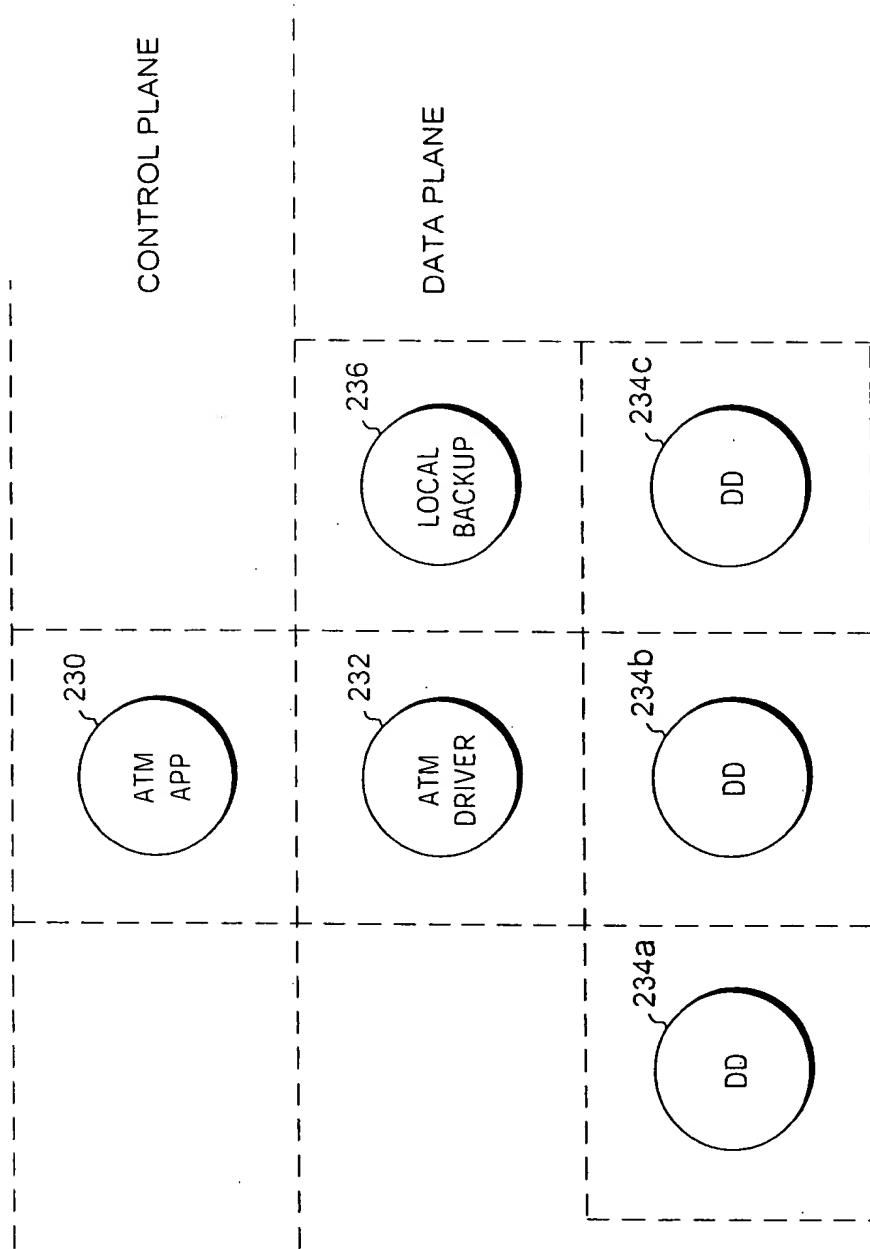


FIG. 24

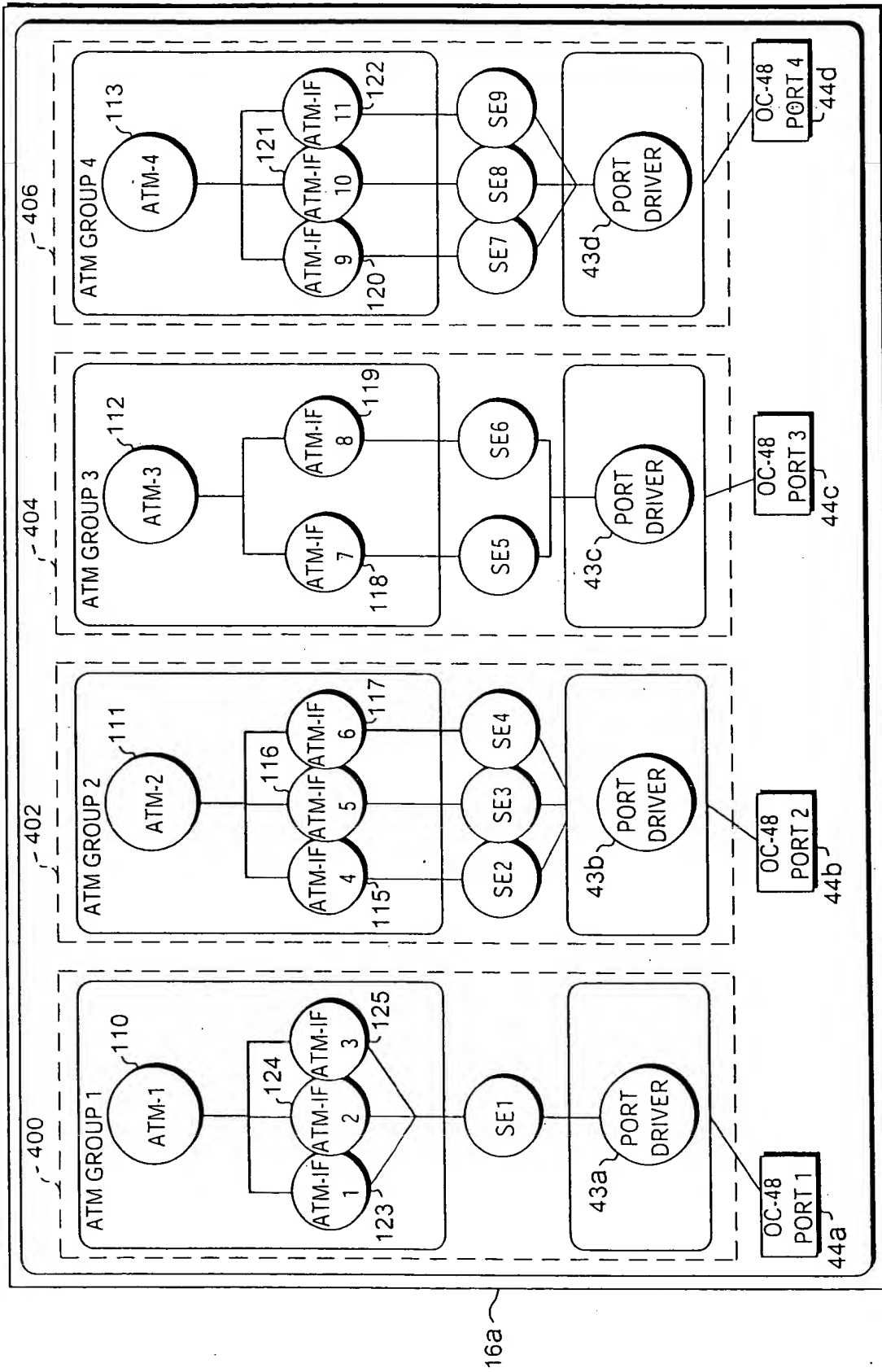


FIG. 25

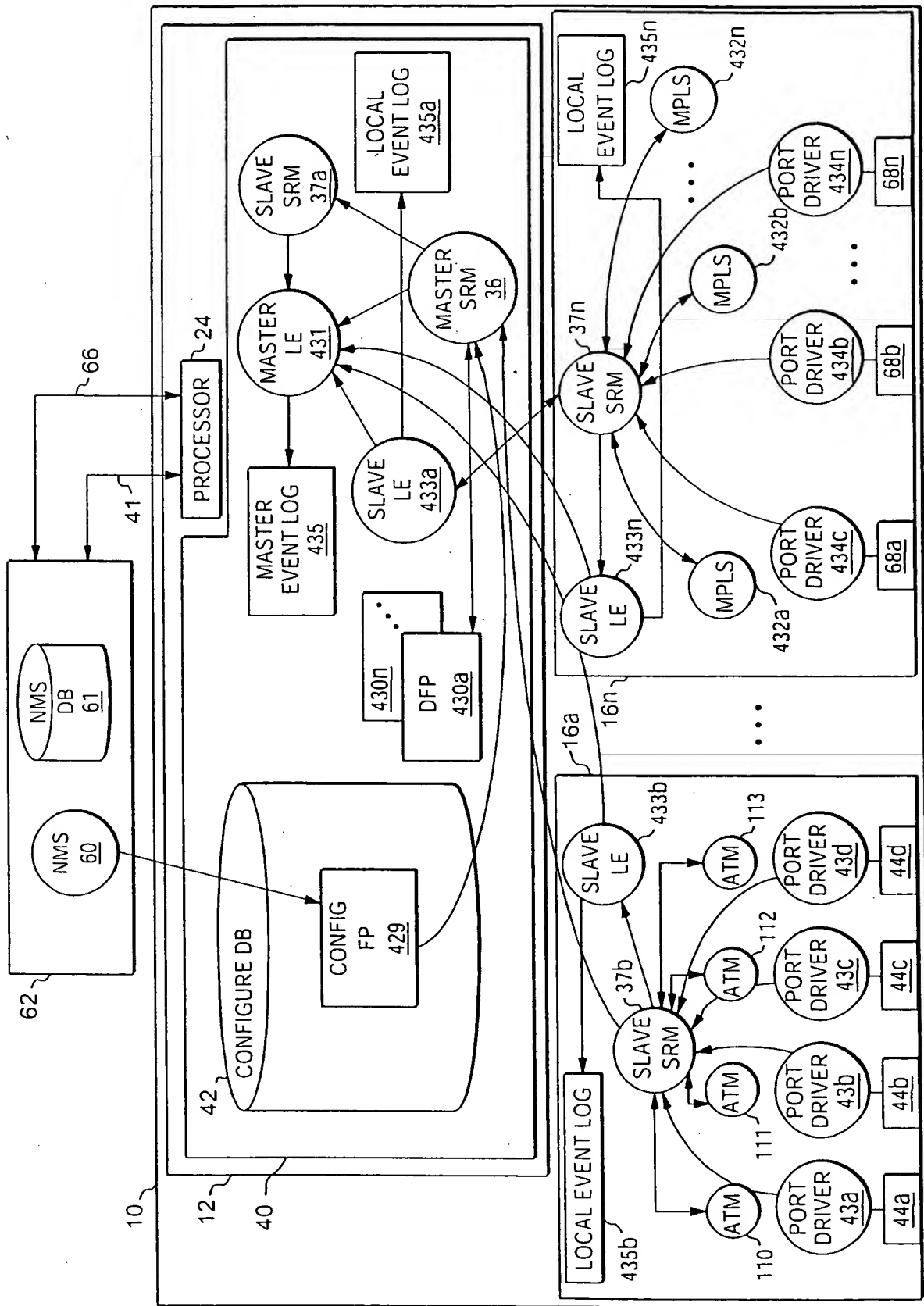


FIG. 26

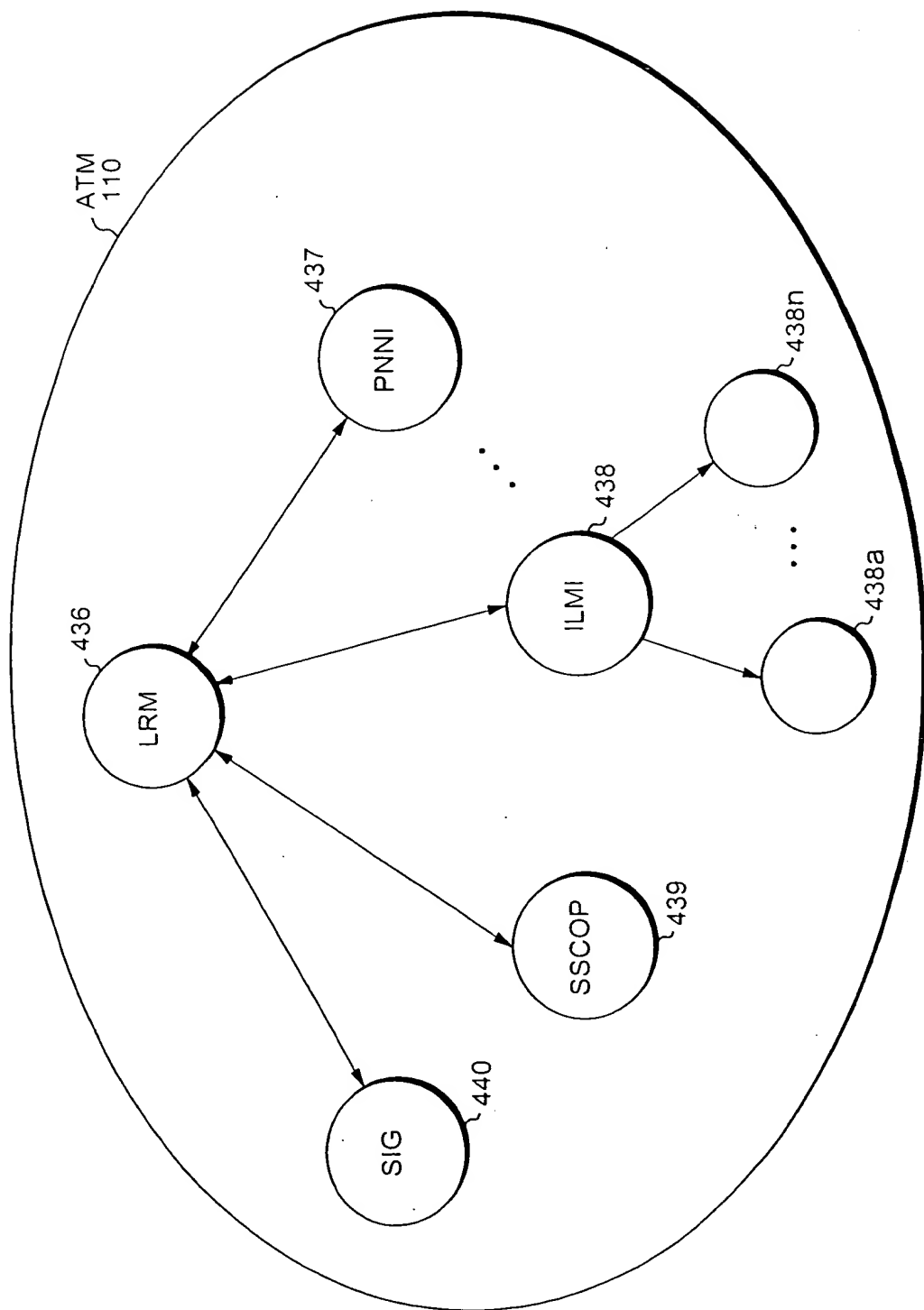


FIG. 27

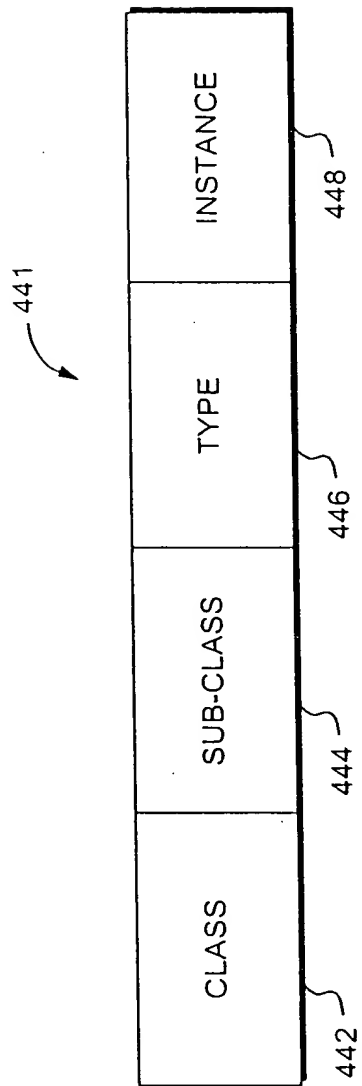


FIG. 28

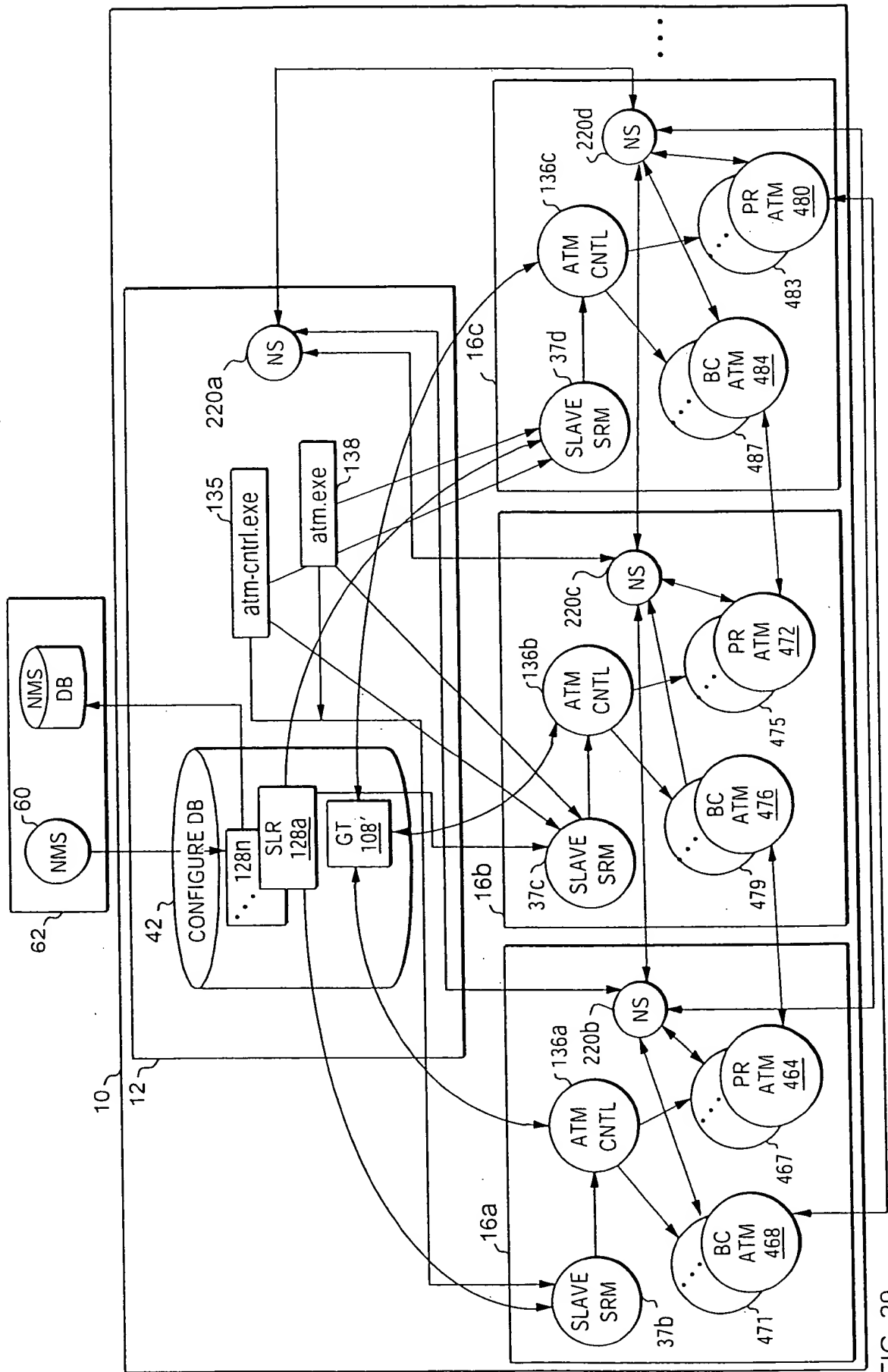


FIG. 29

GROUP TABLE 108'

		447	449	
	GROUP #	PRIMARY CARD LID	BACKUP CARD LID	...
450	1	30	31	
451	2	30	31	
452	3	30	31	
453	4	30	31	
454	5	31	32	
455	6	31	32	
456	7	31	32	
457	8	31	32	
458	9	32	30	
459	10	32	30	
460	11	32	30	
461	12	32	30	
	⋮	⋮	⋮	⋮

FIG. 30

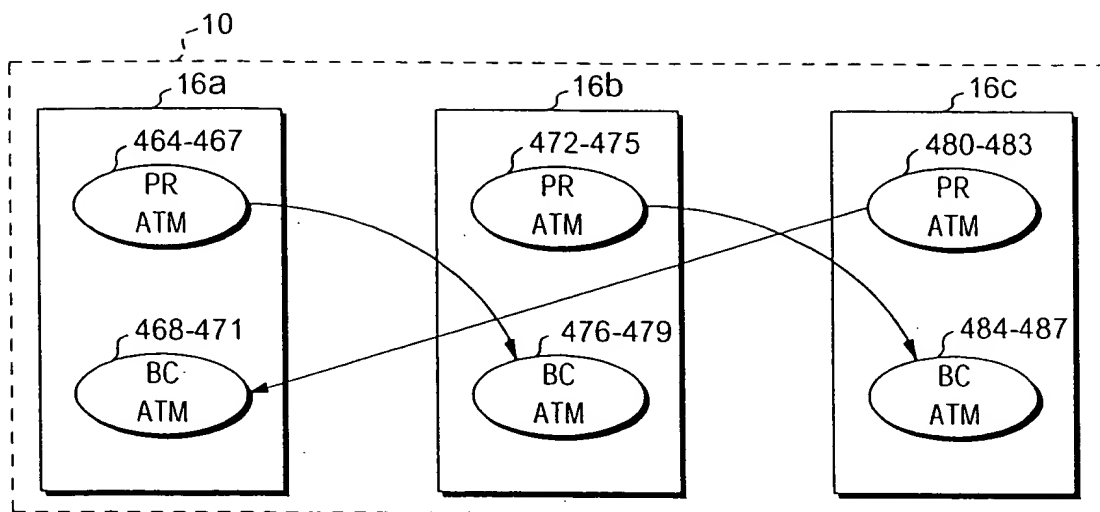


FIG. 31A

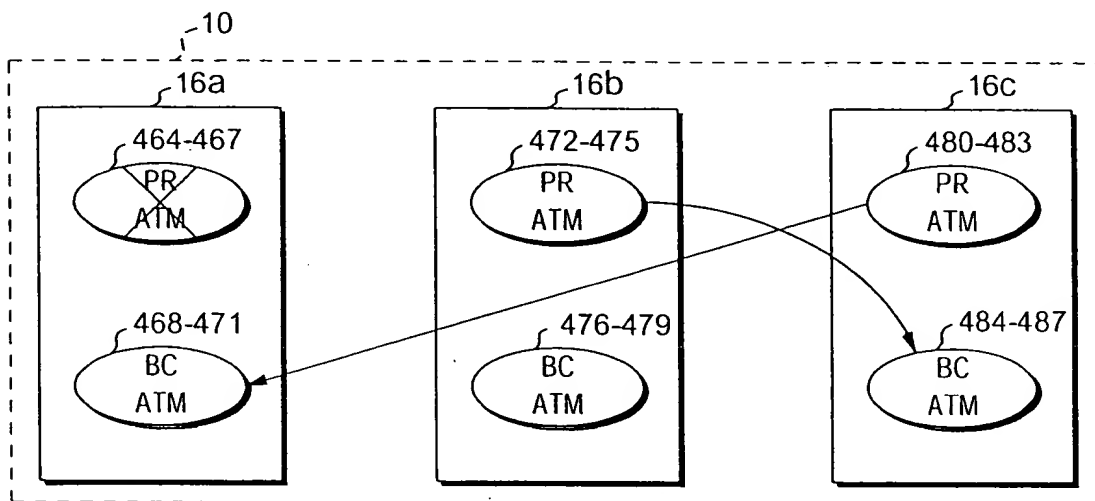


FIG. 31B

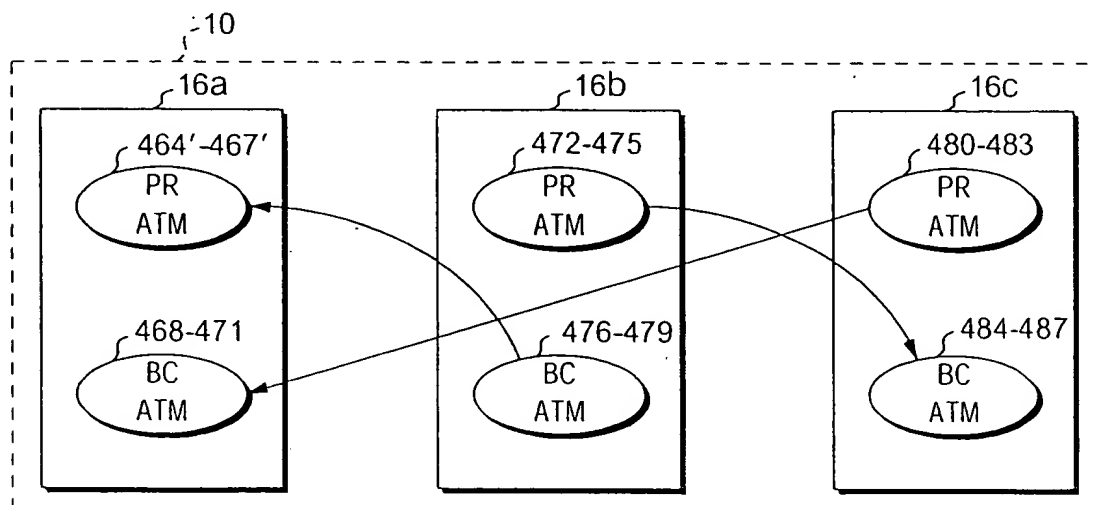


FIG. 31C

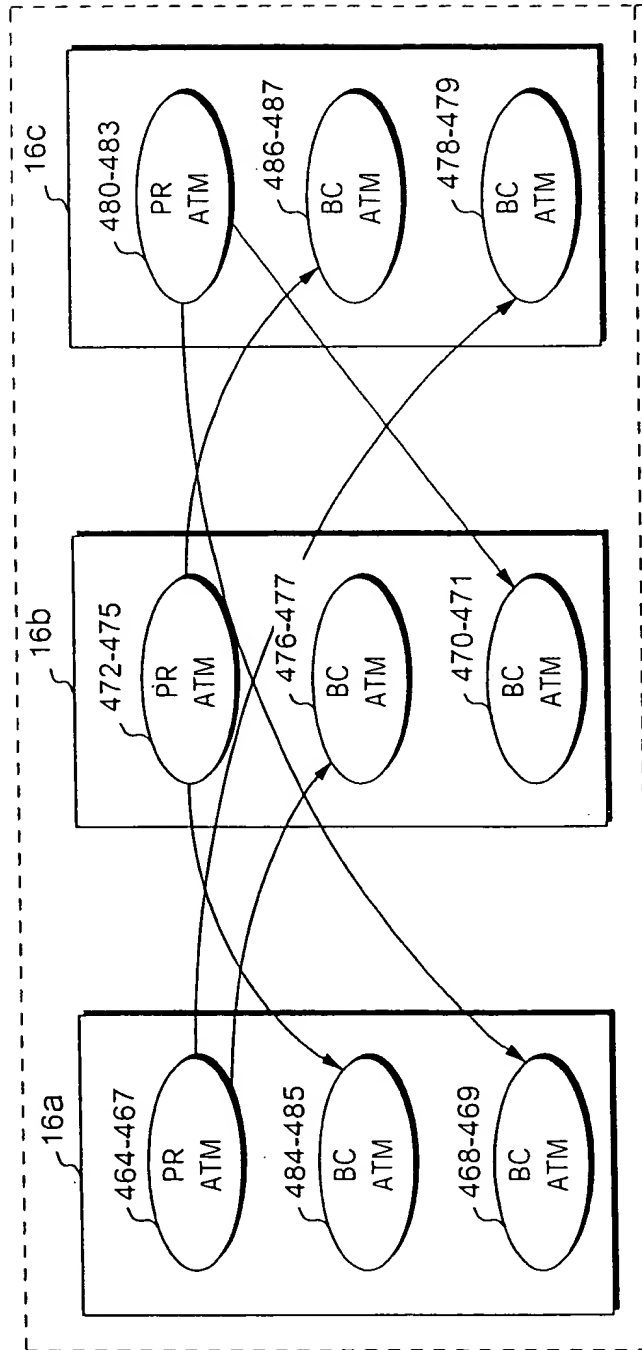


FIG. 32A

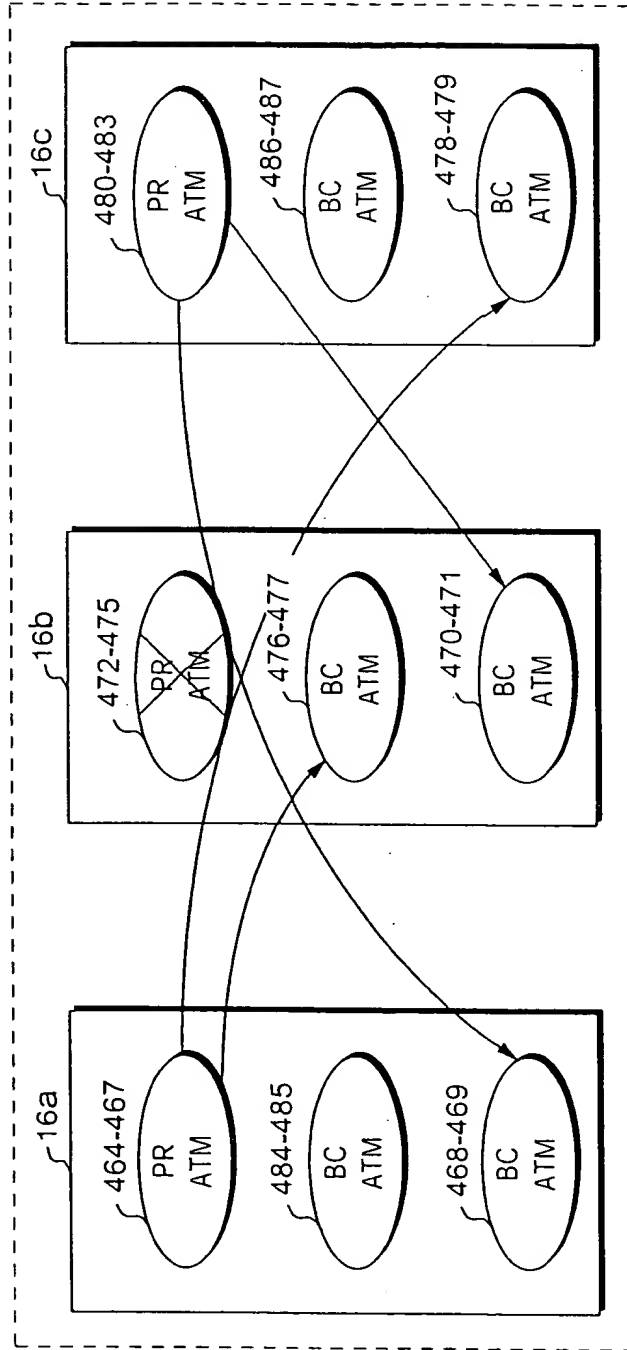


FIG. 32B

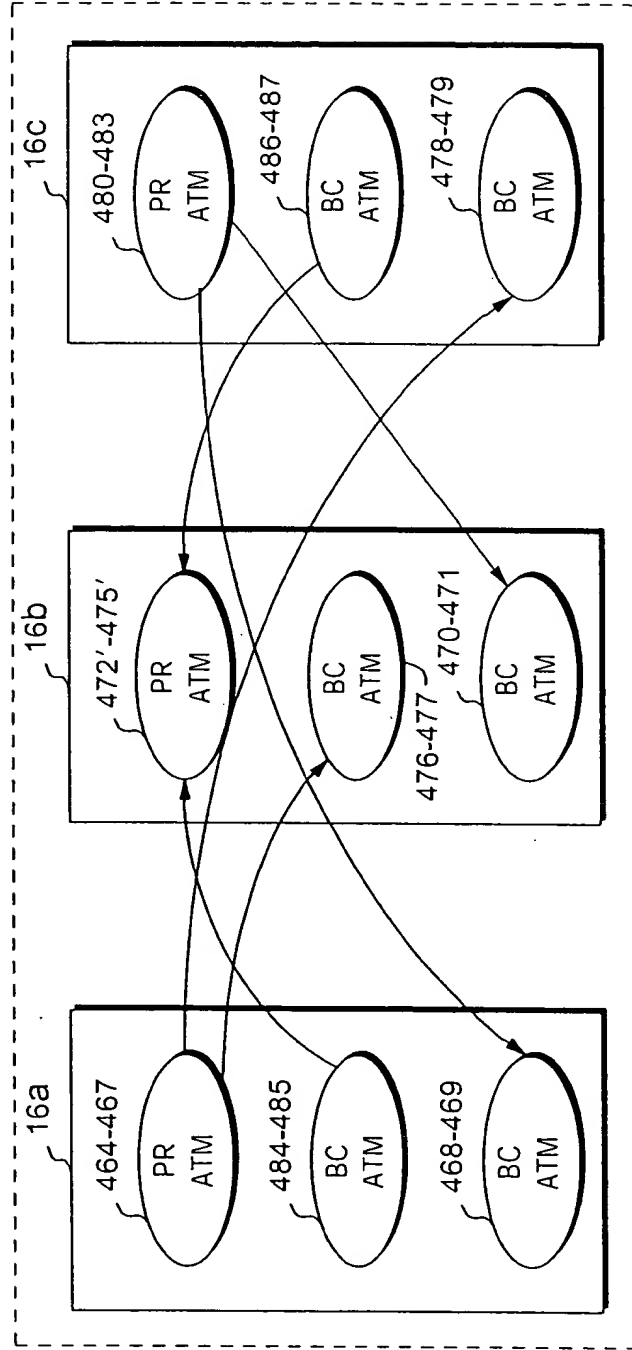


FIG. 32C

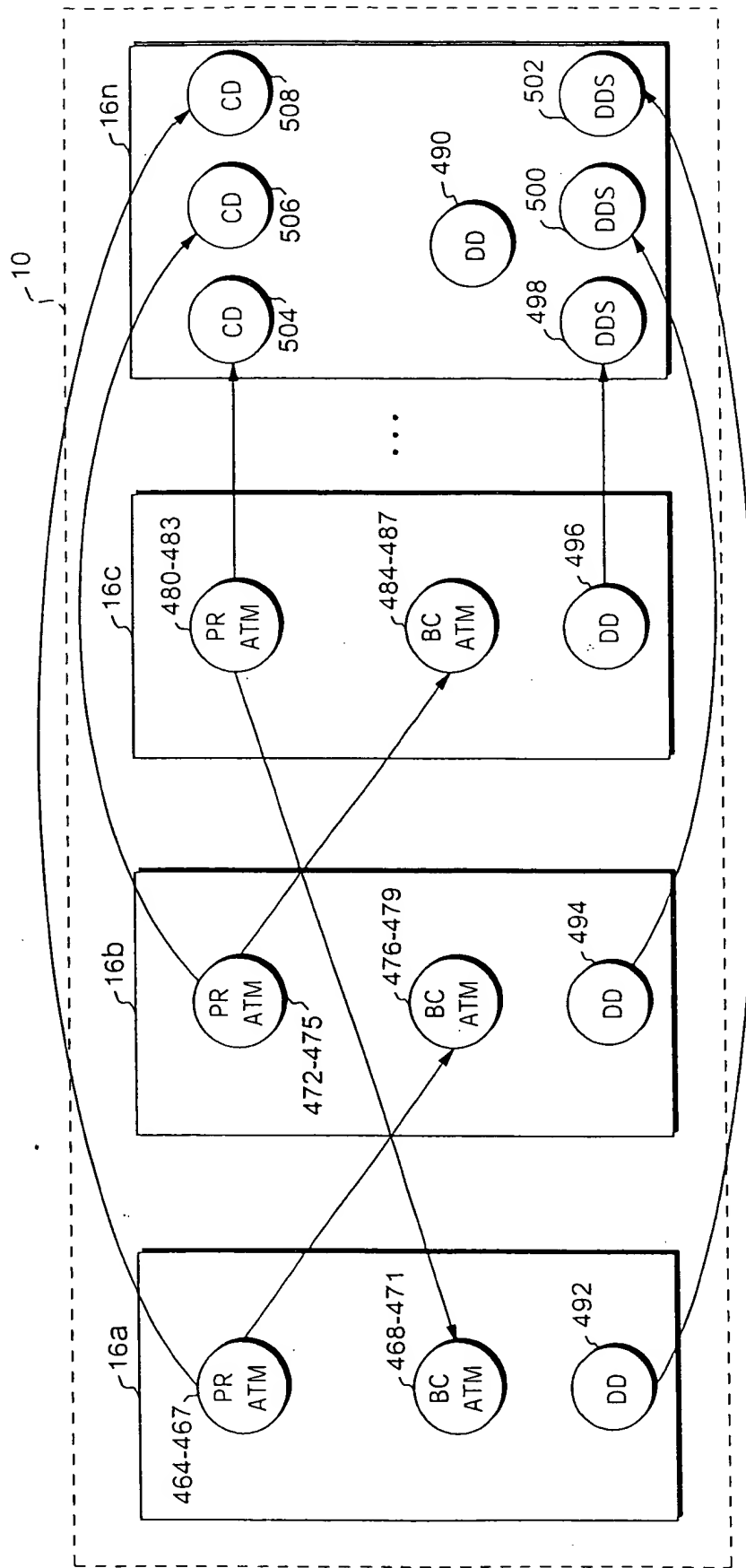


FIG. 33A

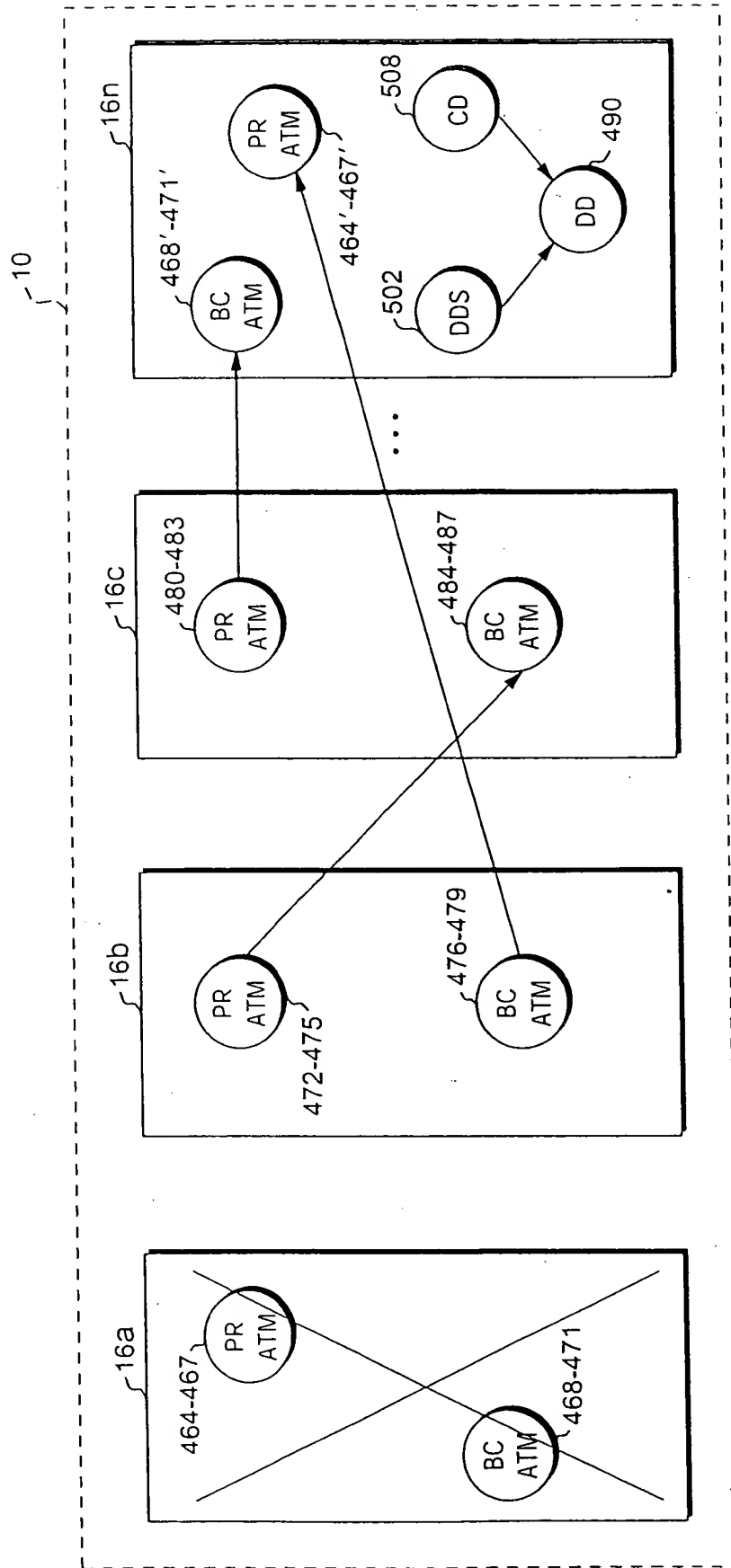


FIG. 33B

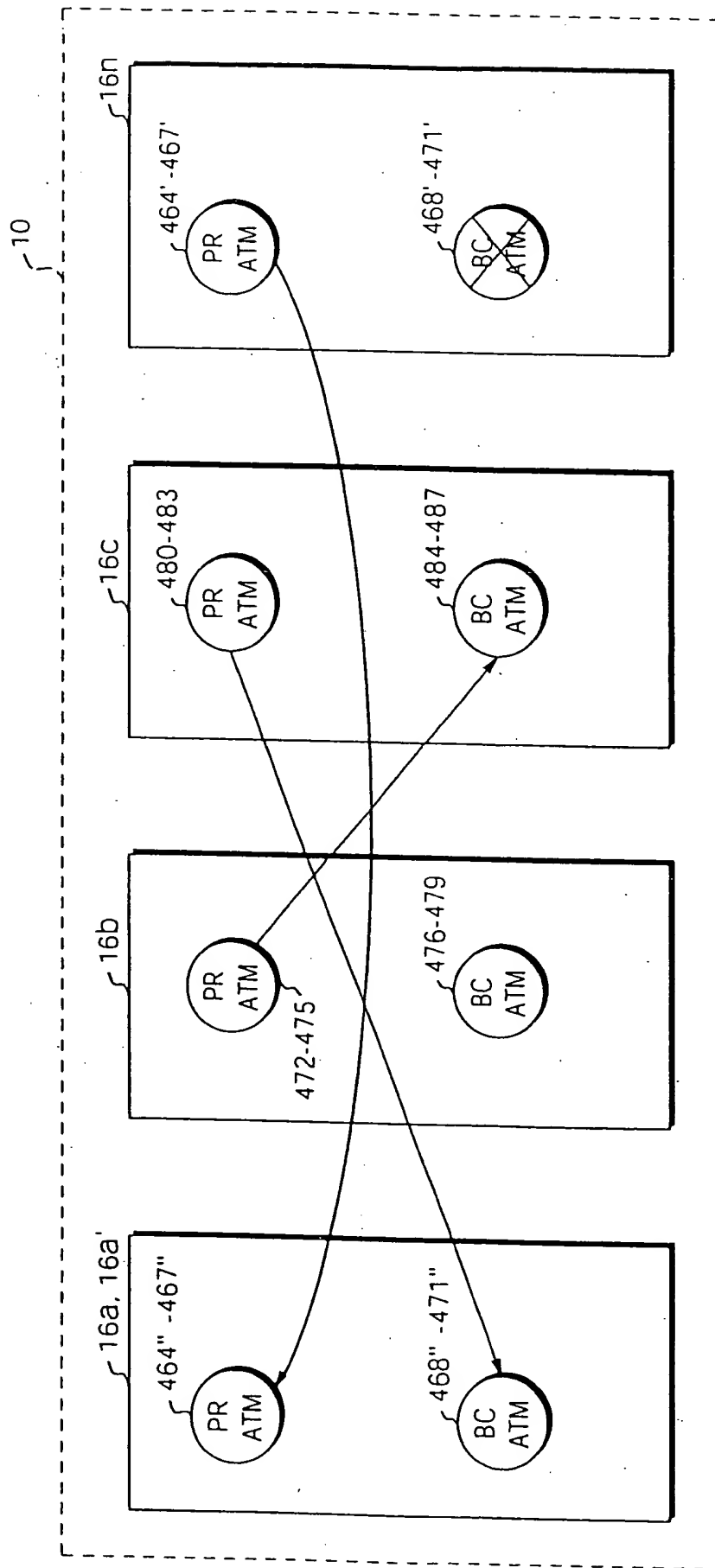


FIG. 33C

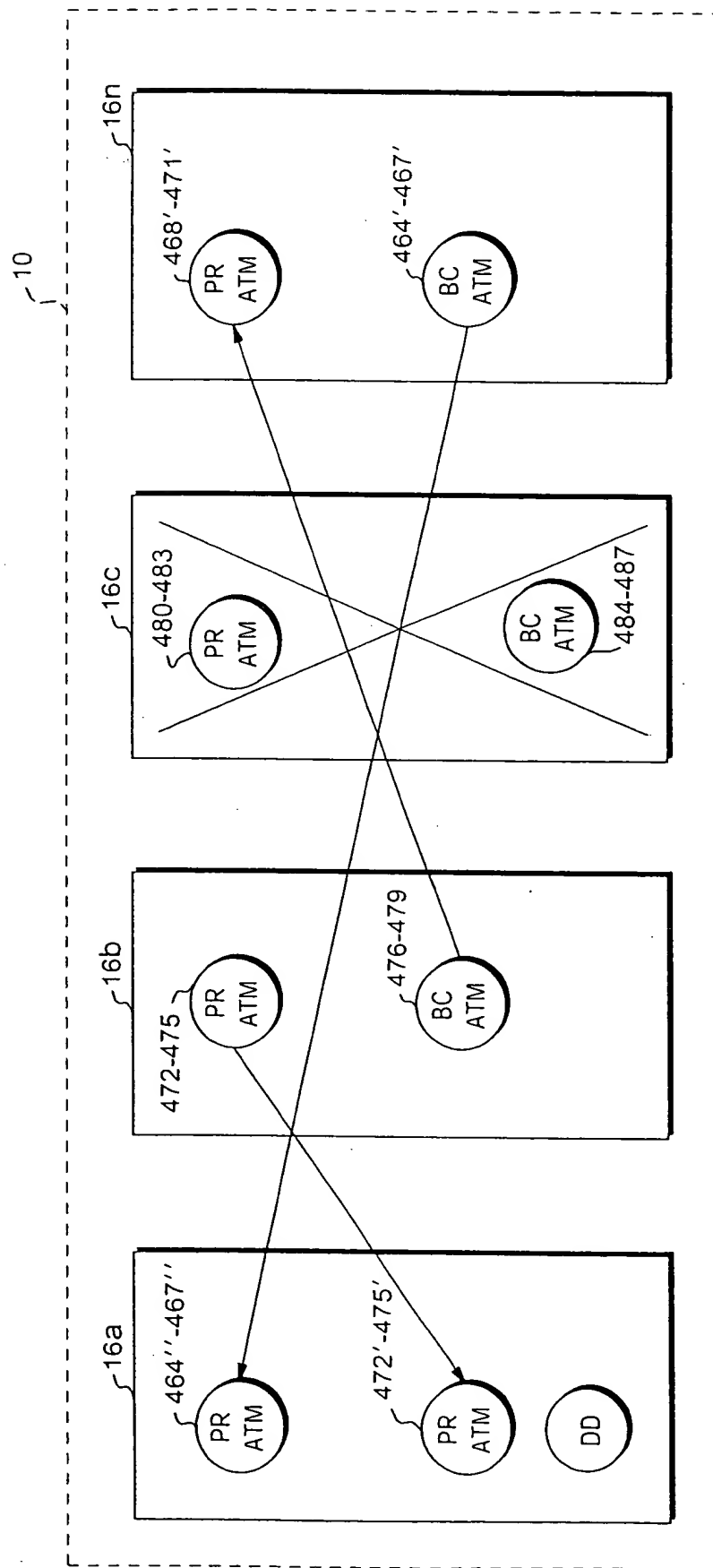


FIG. 33D

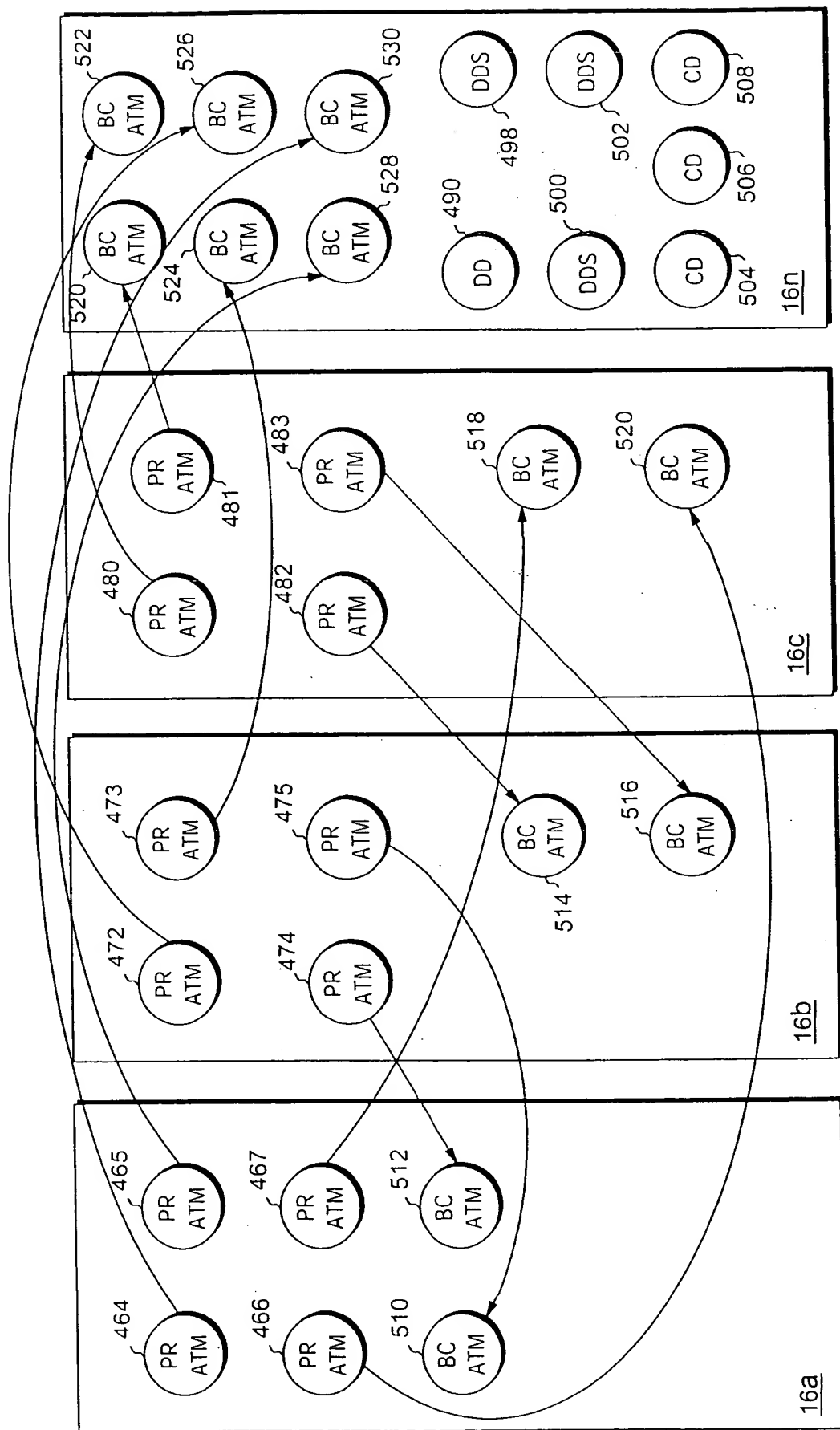


FIG. 34A

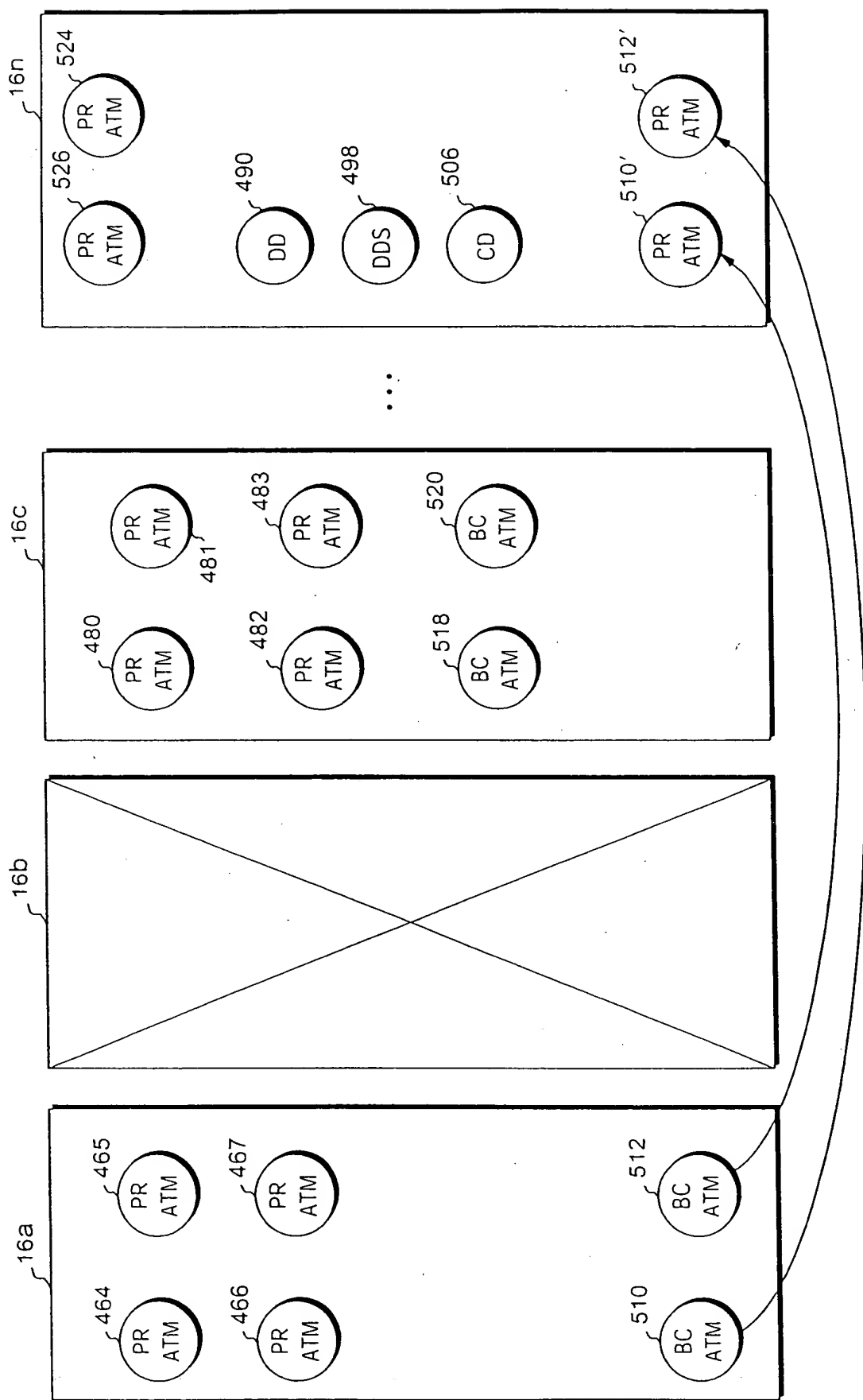


FIG. 34B

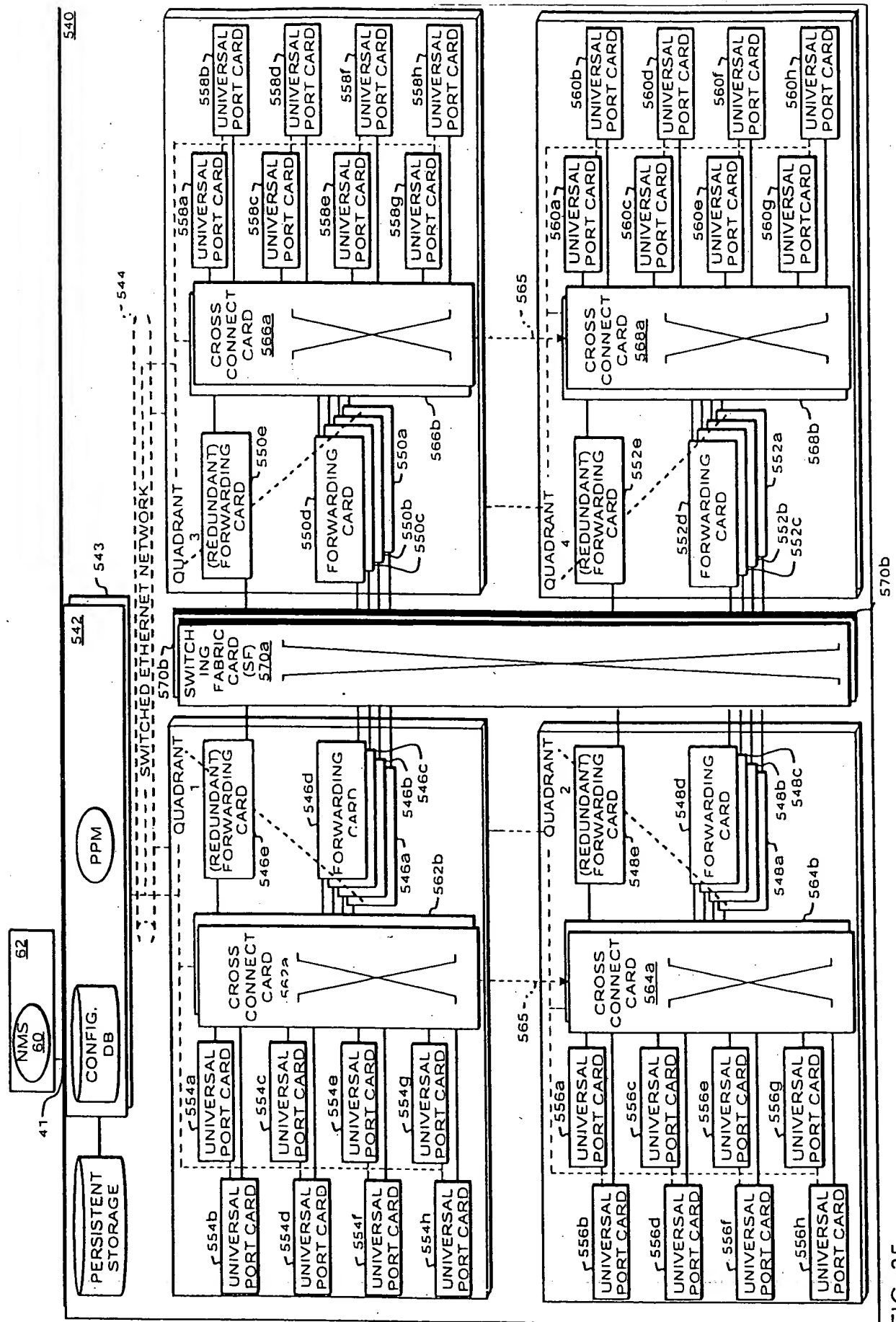


FIG. 35

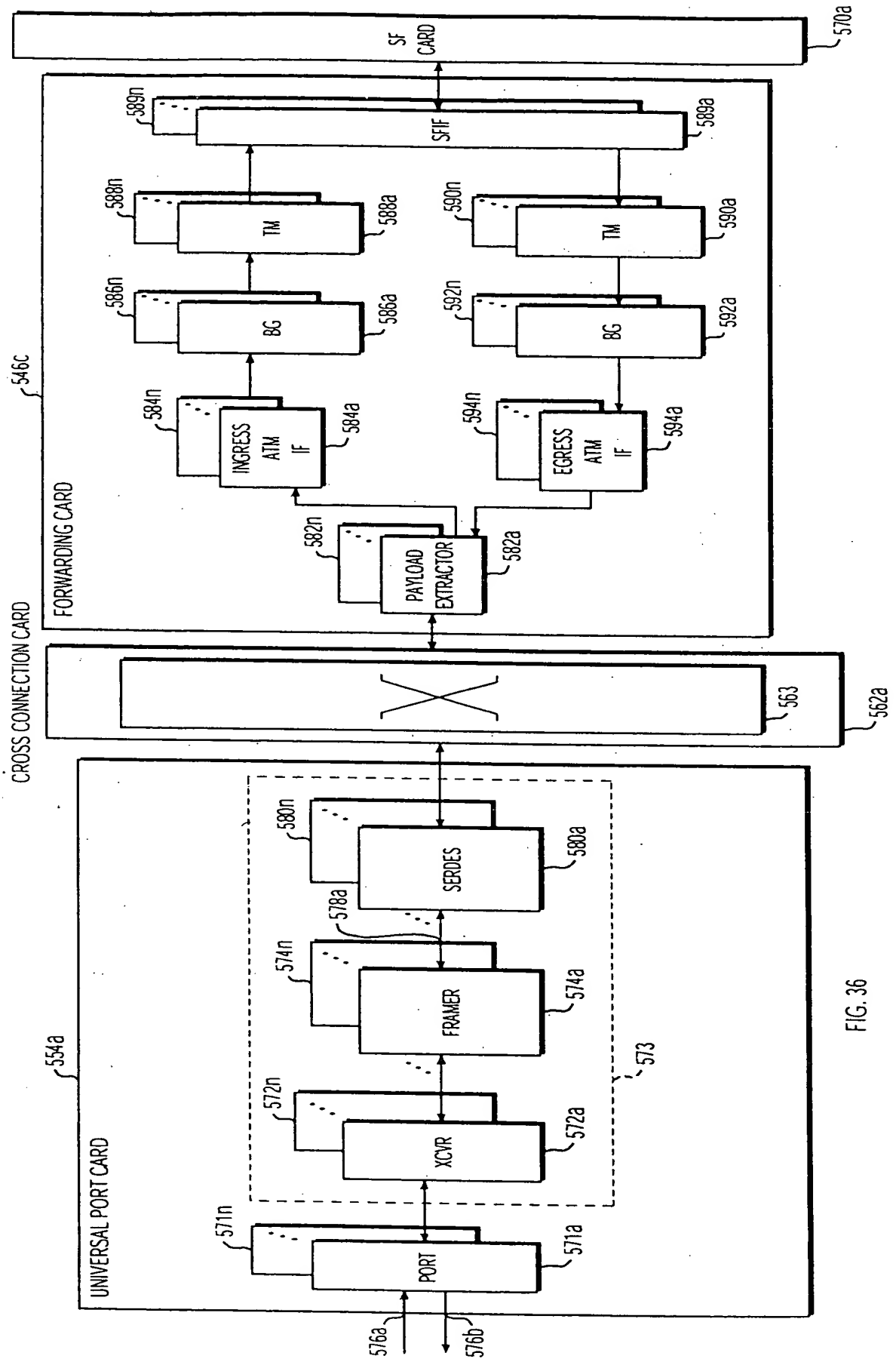


FIG. 36

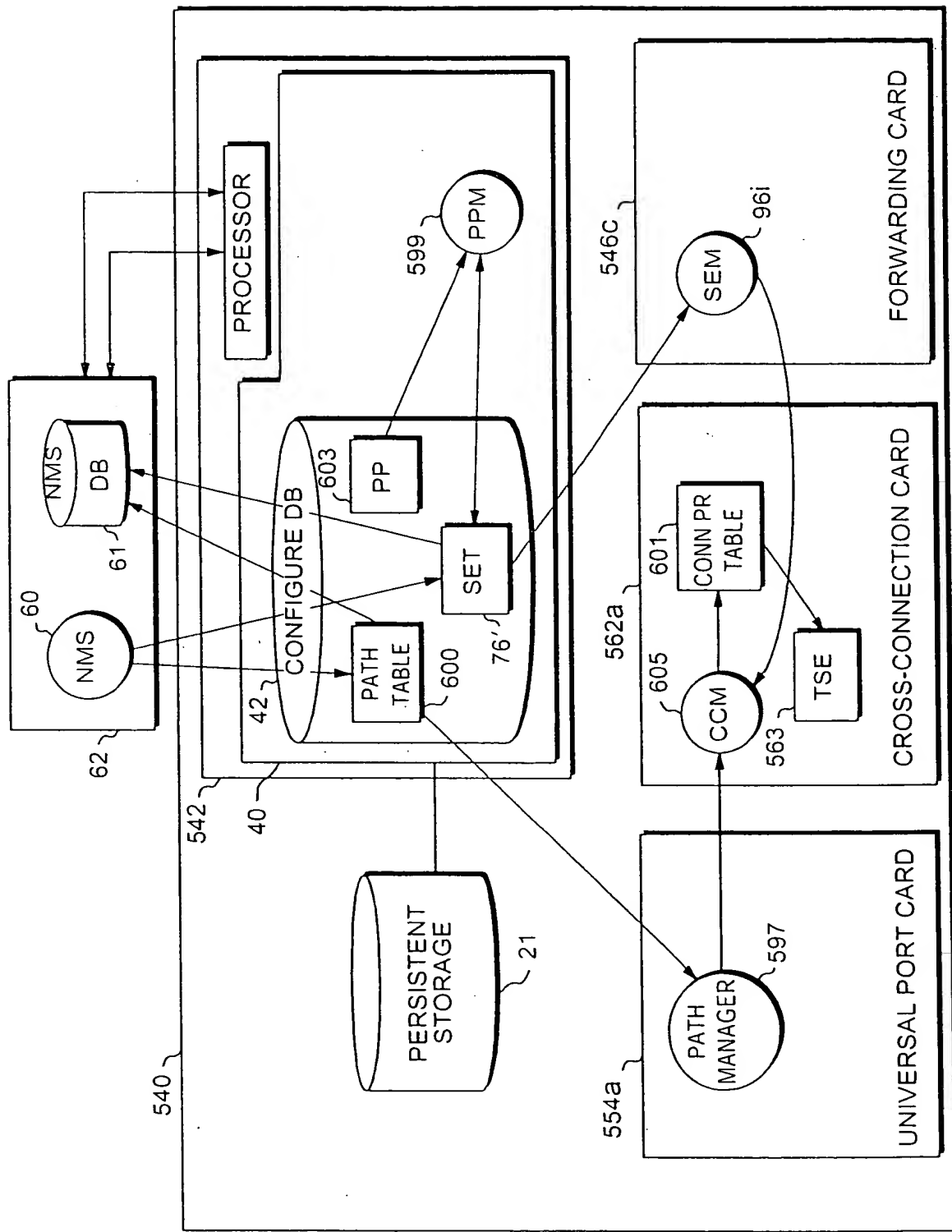


FIG. 37

PATH TABLE 600

602

PATH LID	UP PORT LID	TIME SLOT	# OF TIME SLOTS	...
1666	1231	4	3	
⋮	⋮	⋮	⋮	⋮

FIG. 38

SERVICE END POINT TABLE 76'

604	606		608		610	
	SE #	Q #	FC LID	FC SLICE	FC TIME SLOT	PATH PID
	...					
	878	1				1666
	⋮	⋮	⋮	⋮	⋮	⋮
	⋮	⋮	⋮	⋮	⋮	⋮

FIG. 39

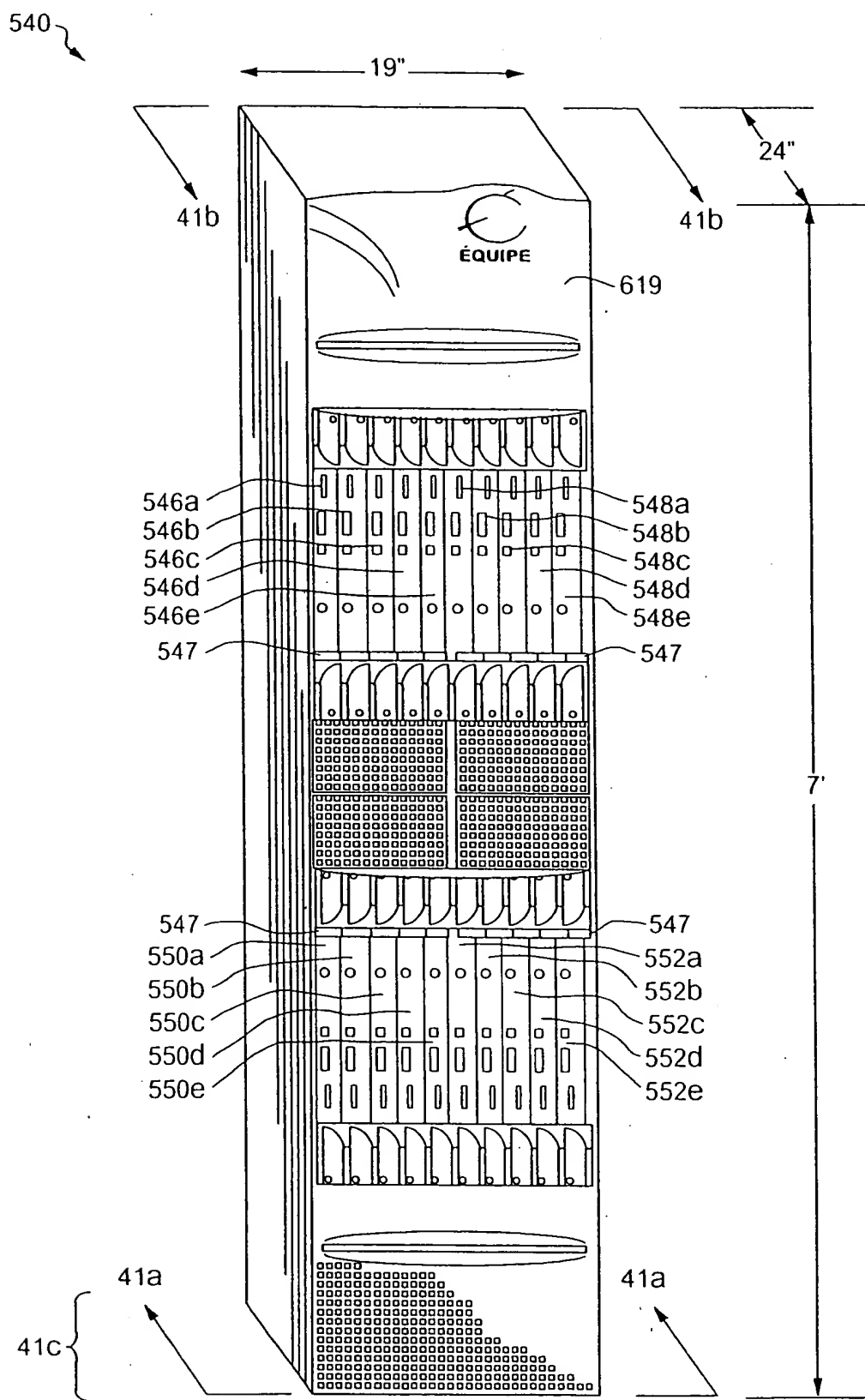


FIG. 40

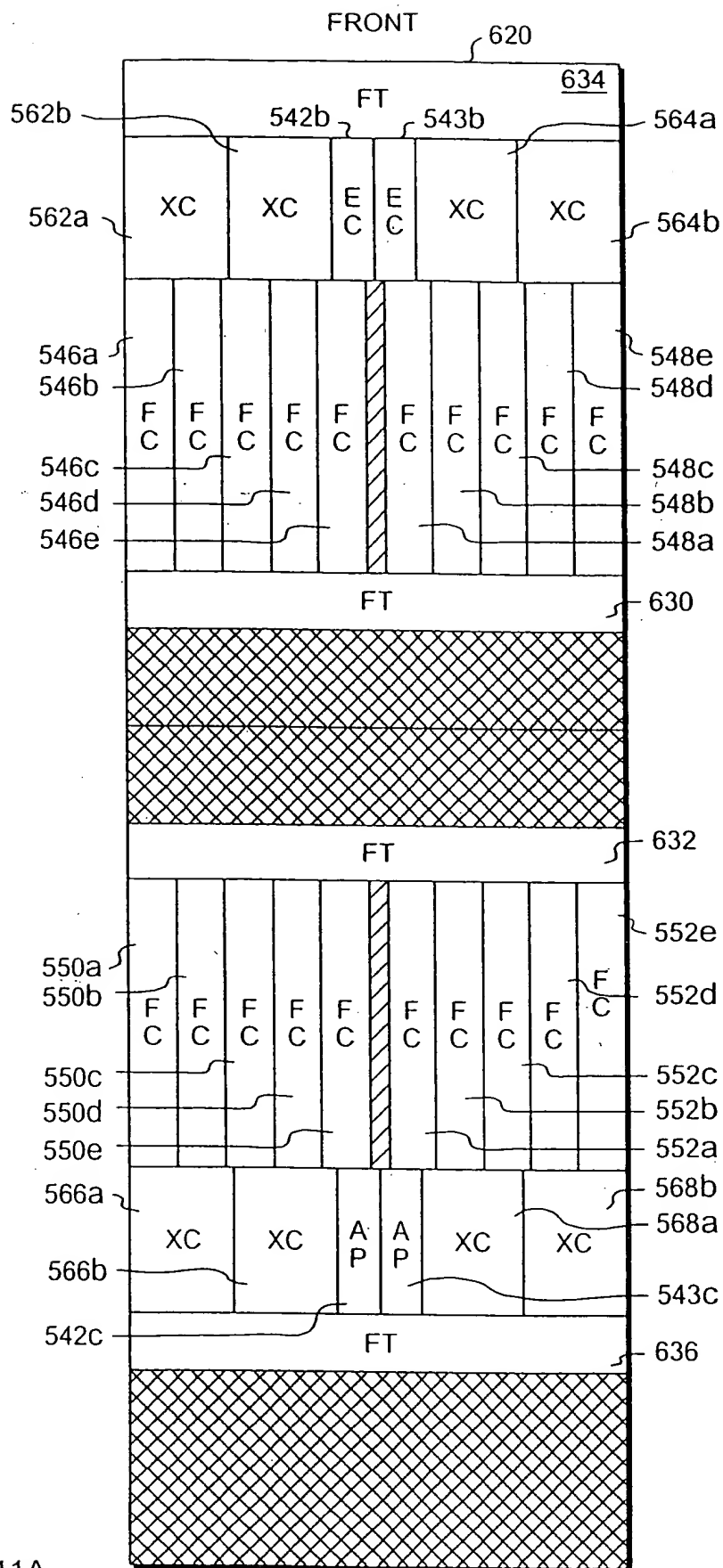


FIG. 41A

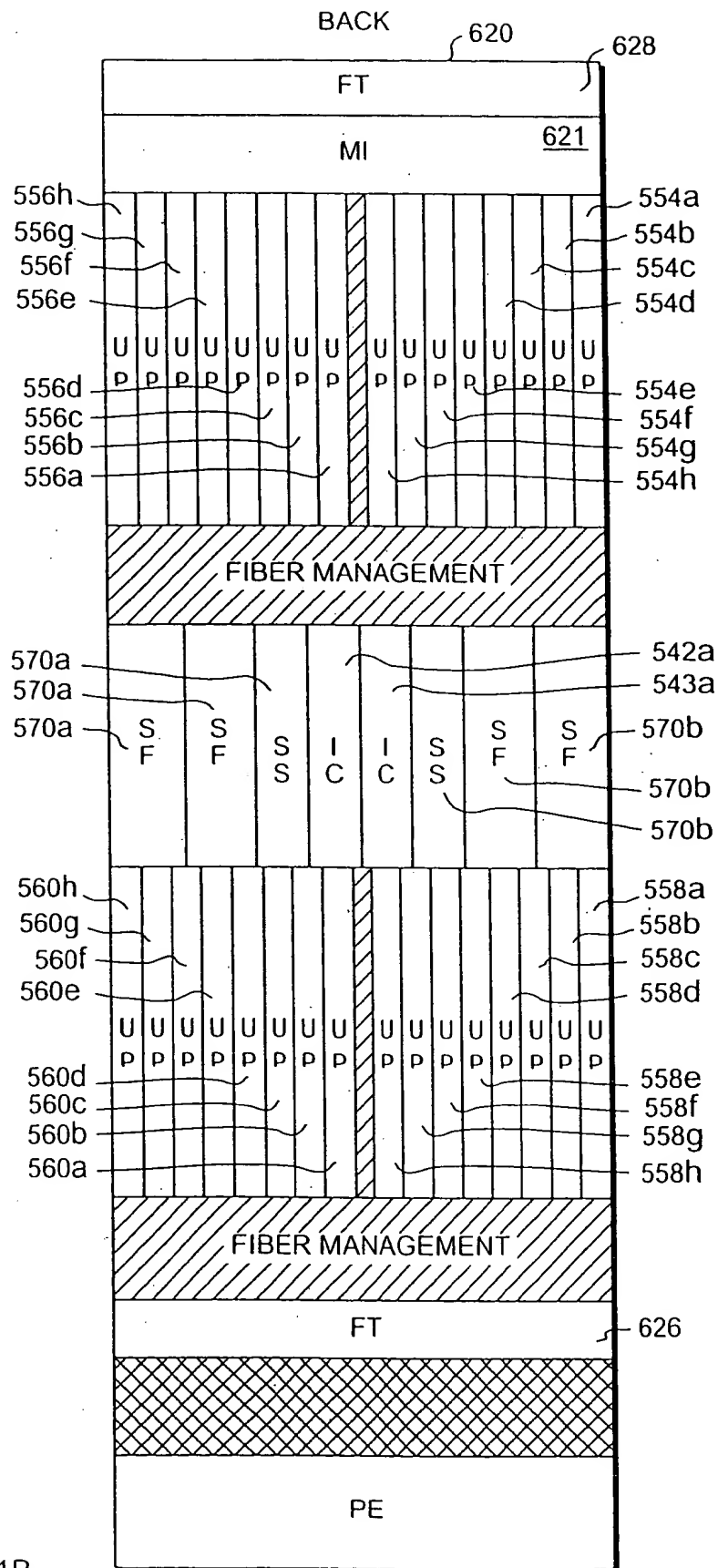


FIG. 41B

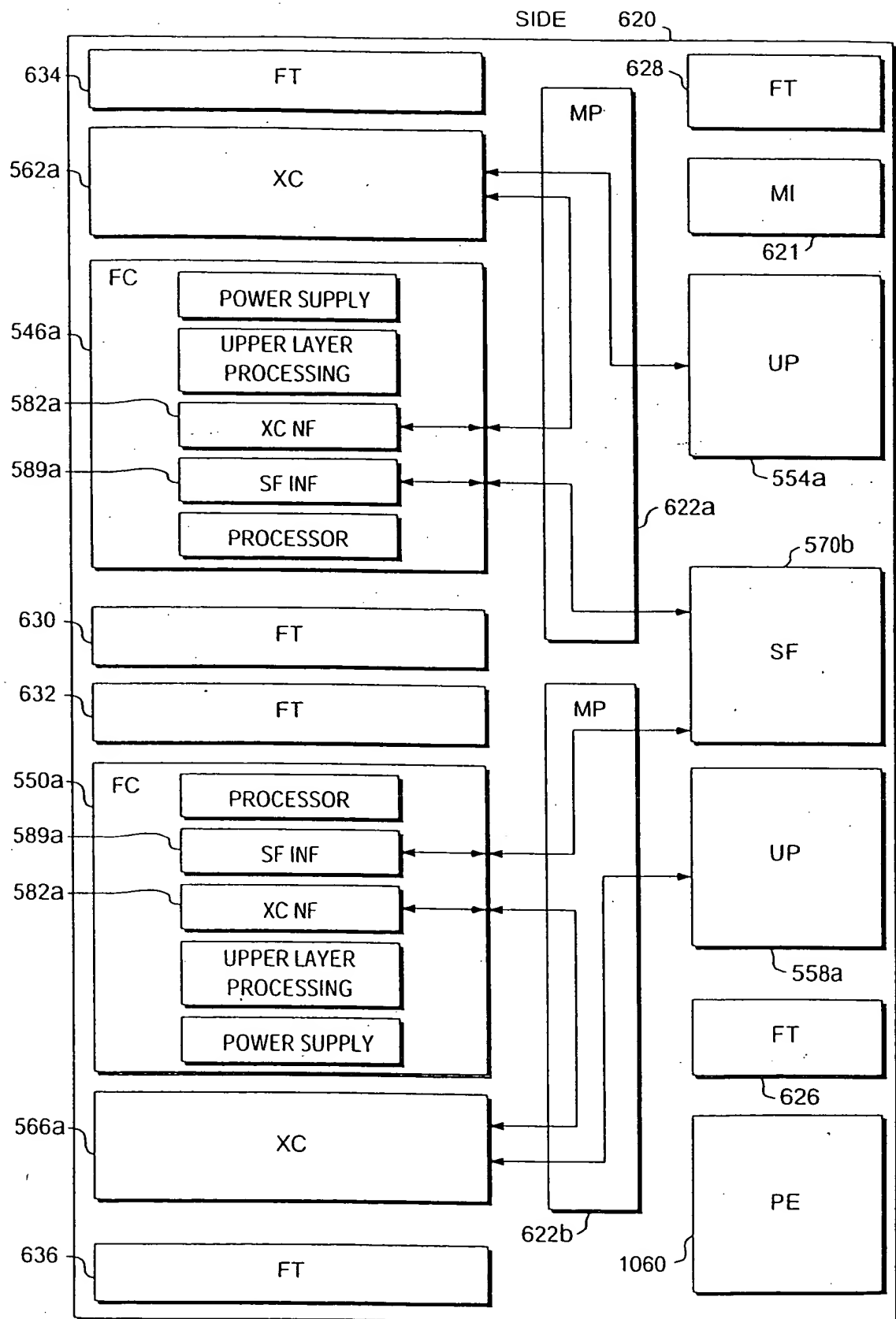


FIG. 41C

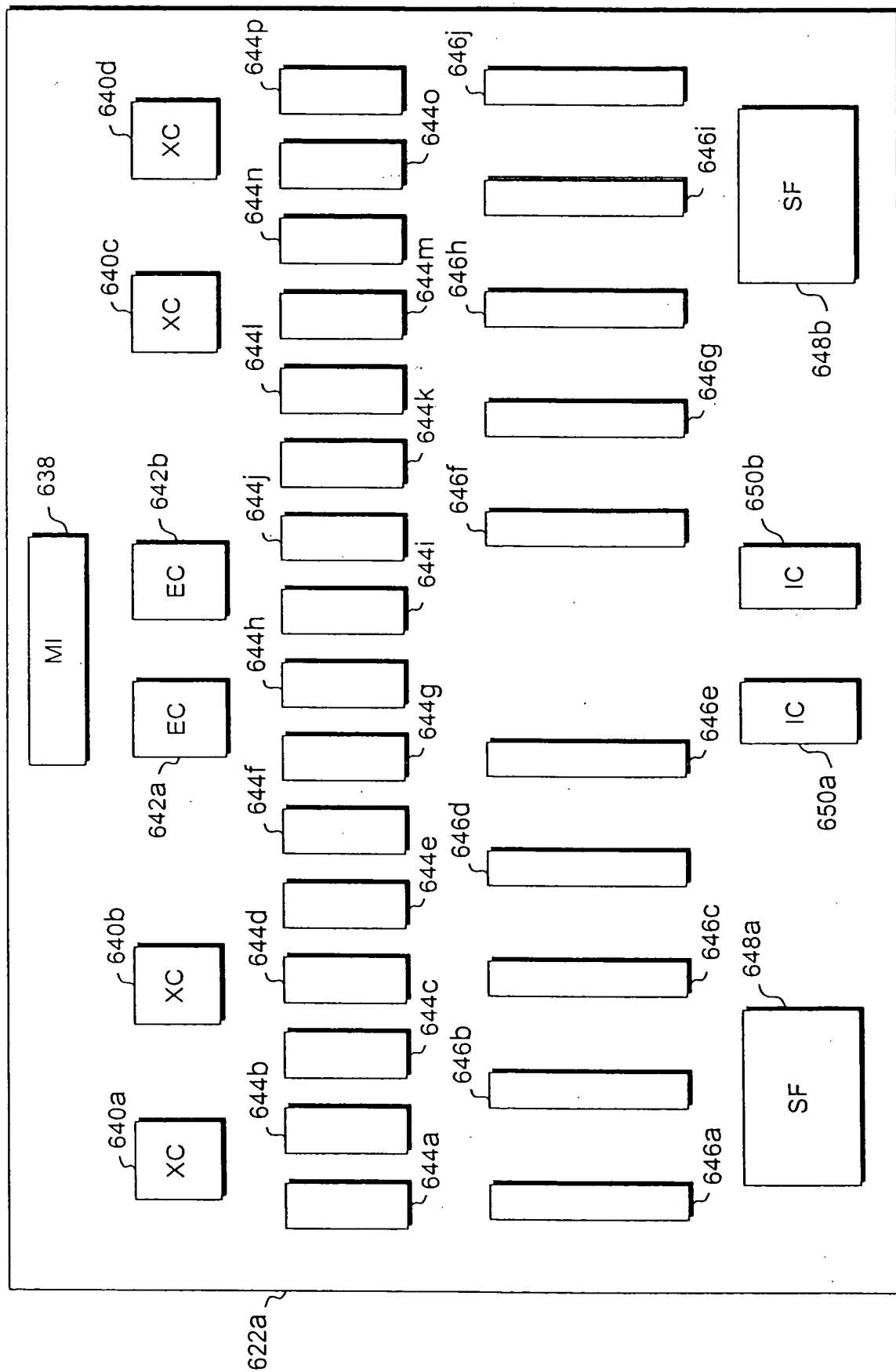
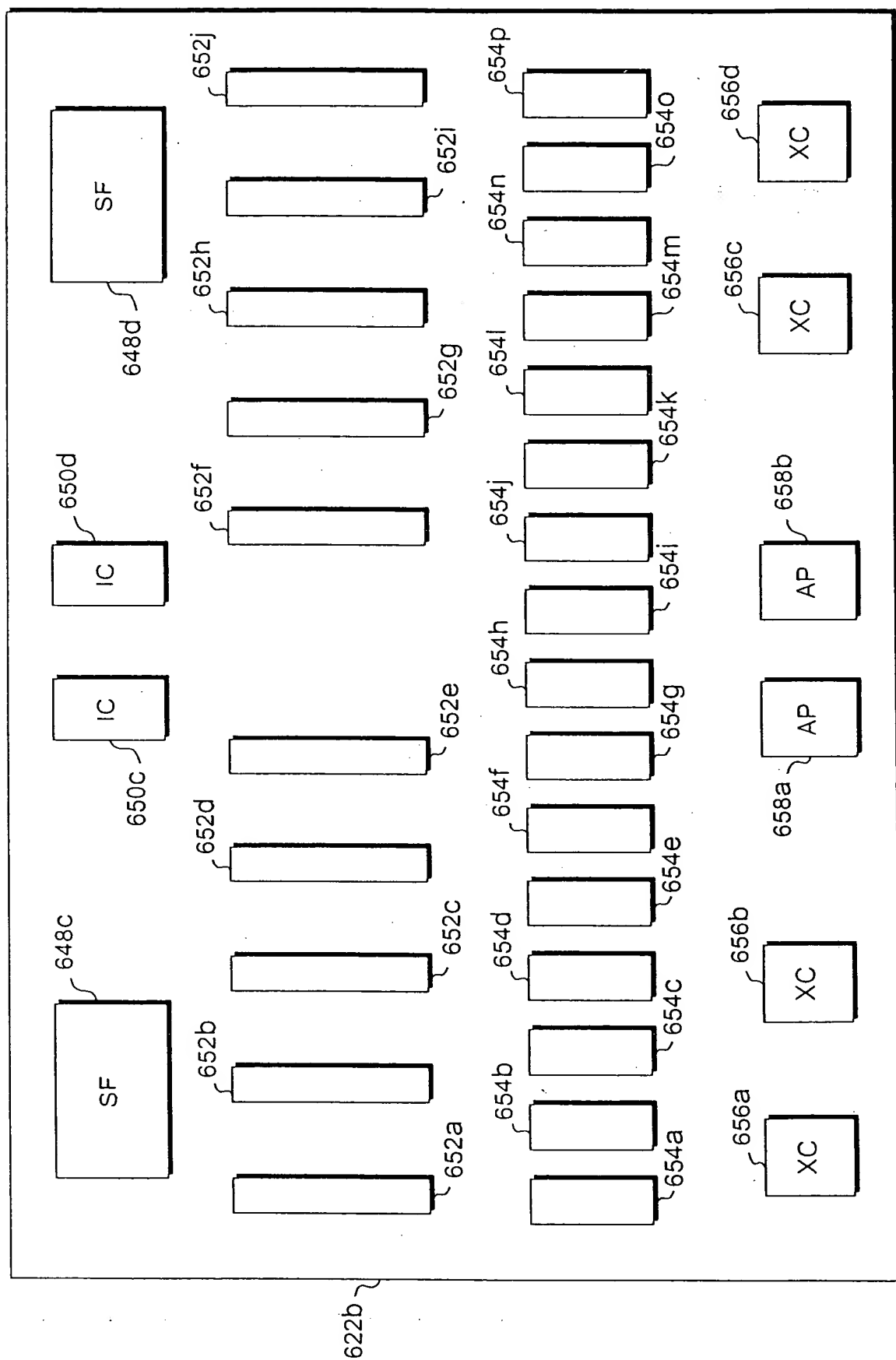


FIG. 42A



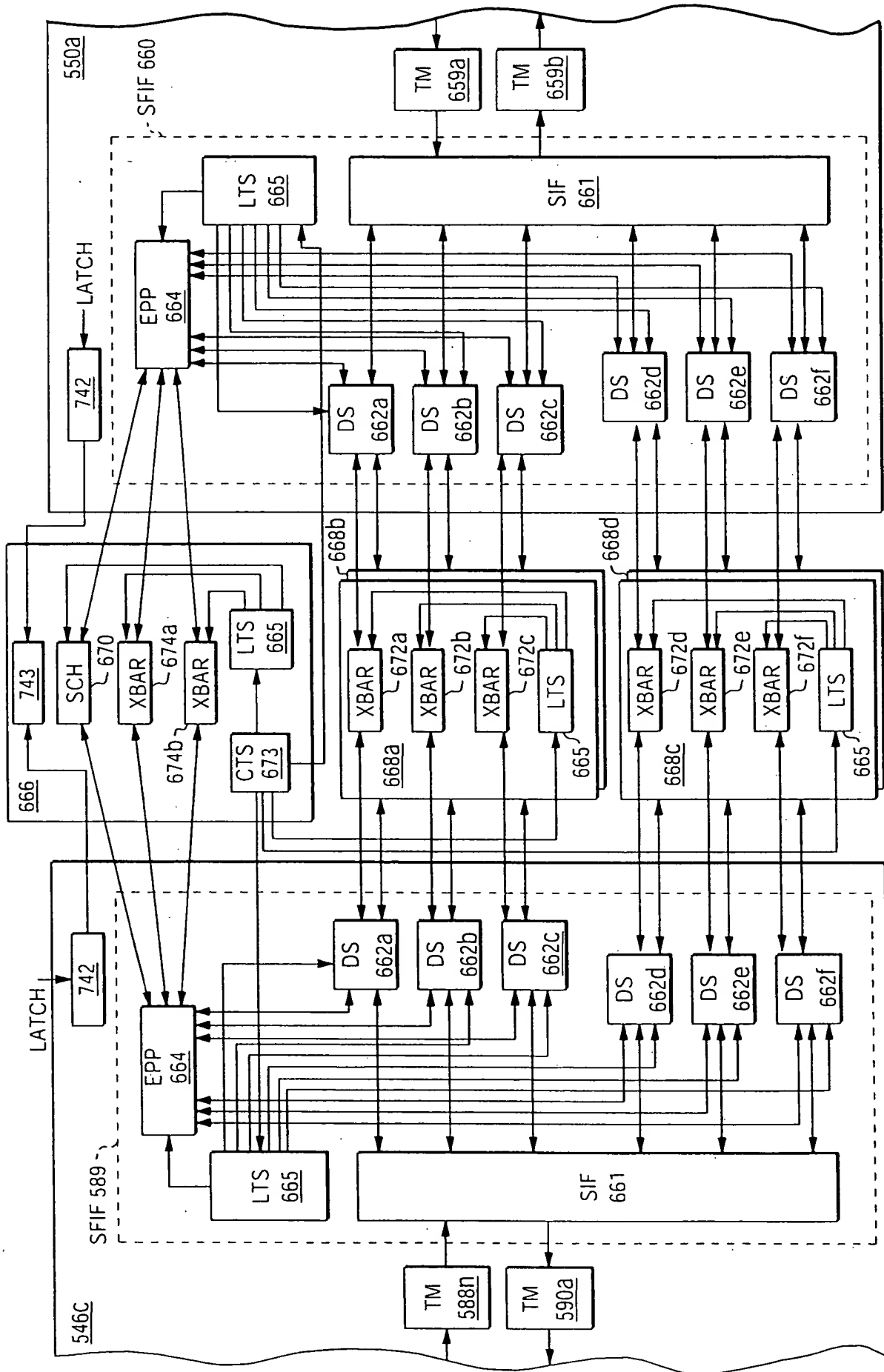


FIG. 43

540

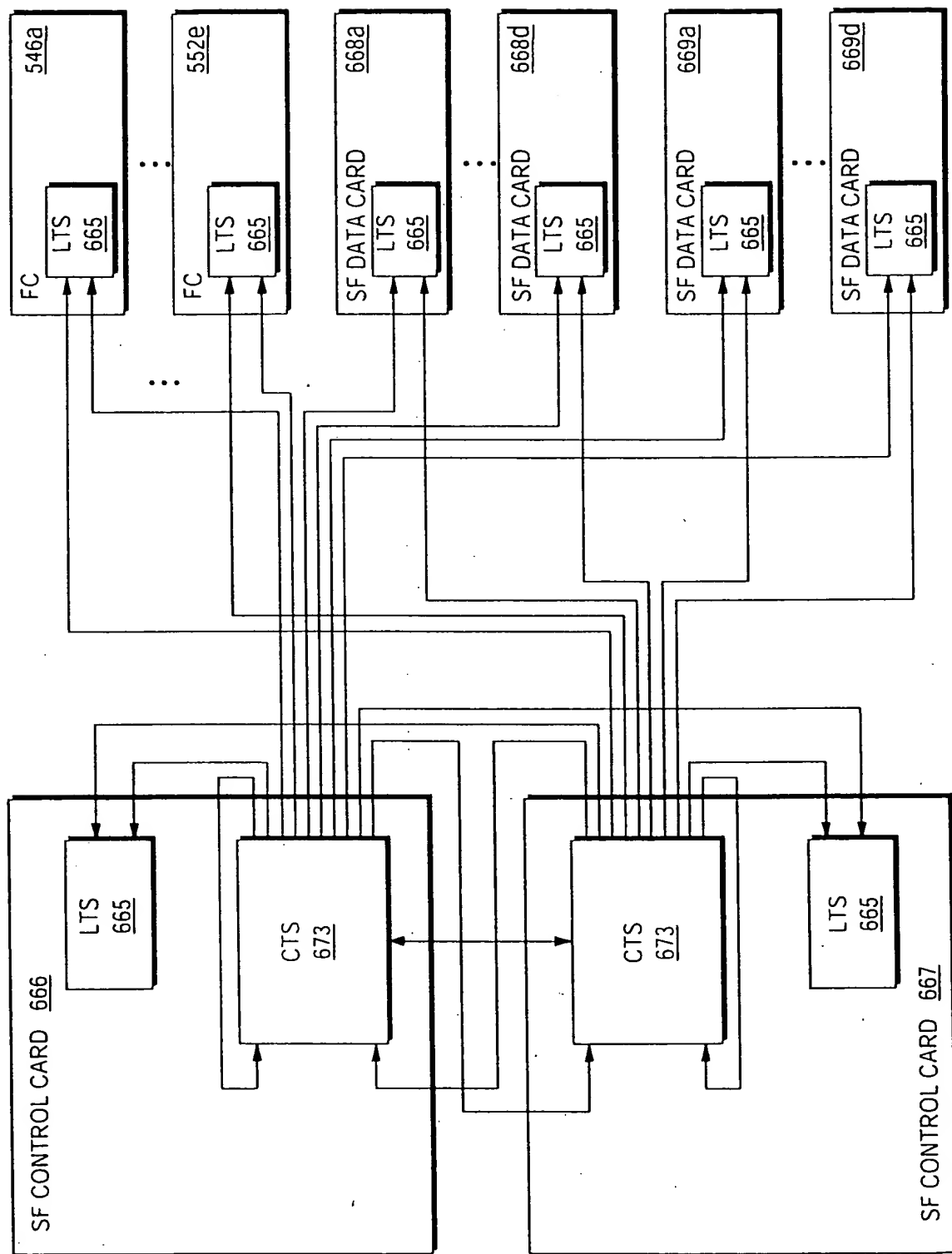
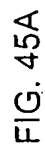


FIG. 44

T0 682a
FIG. 45B

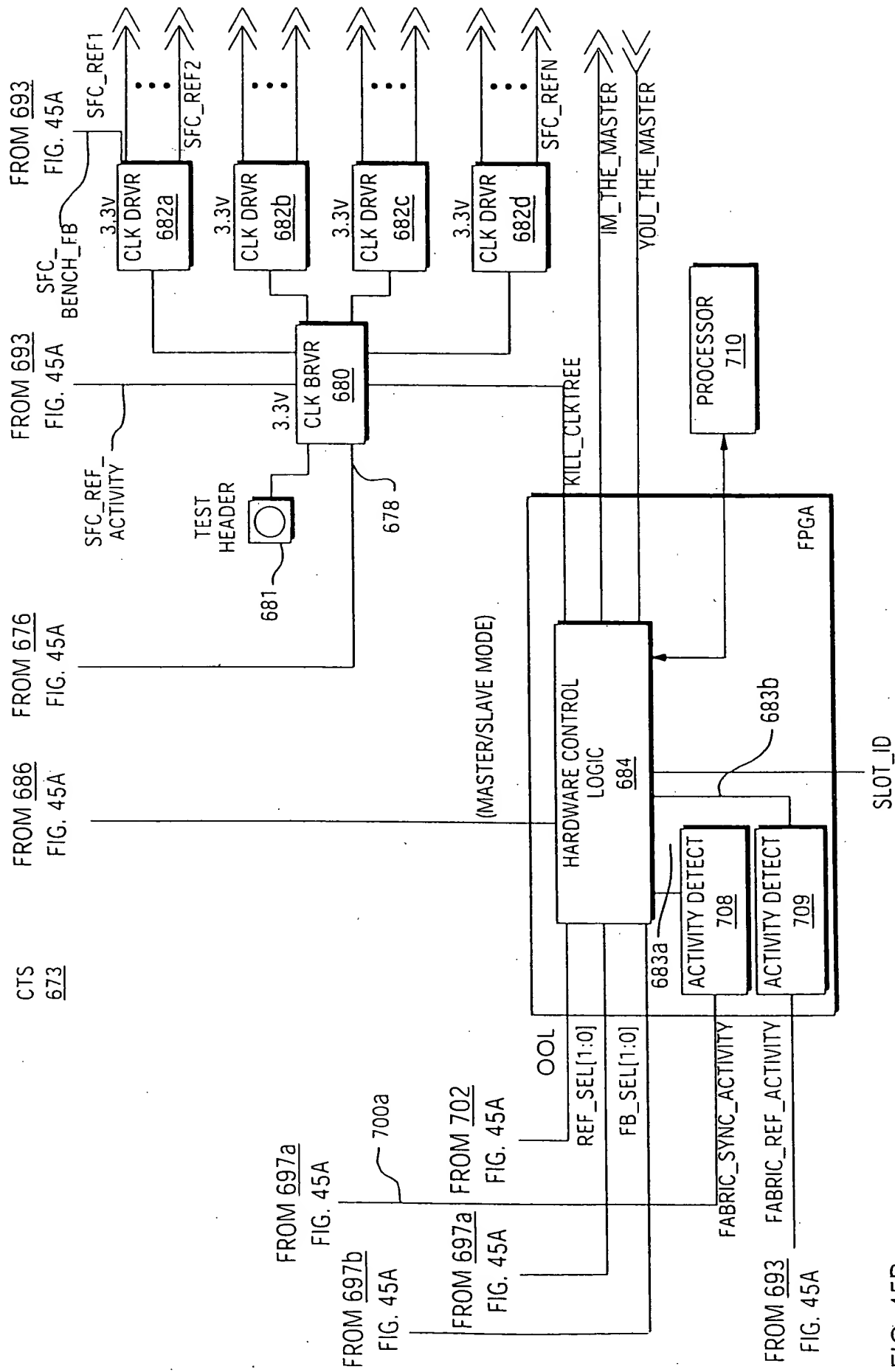
SFC REF ACTIVITY

TO 709
FIG. 45B



TO 684
FIG. 45B

(MASTER/SLAVE MODE)



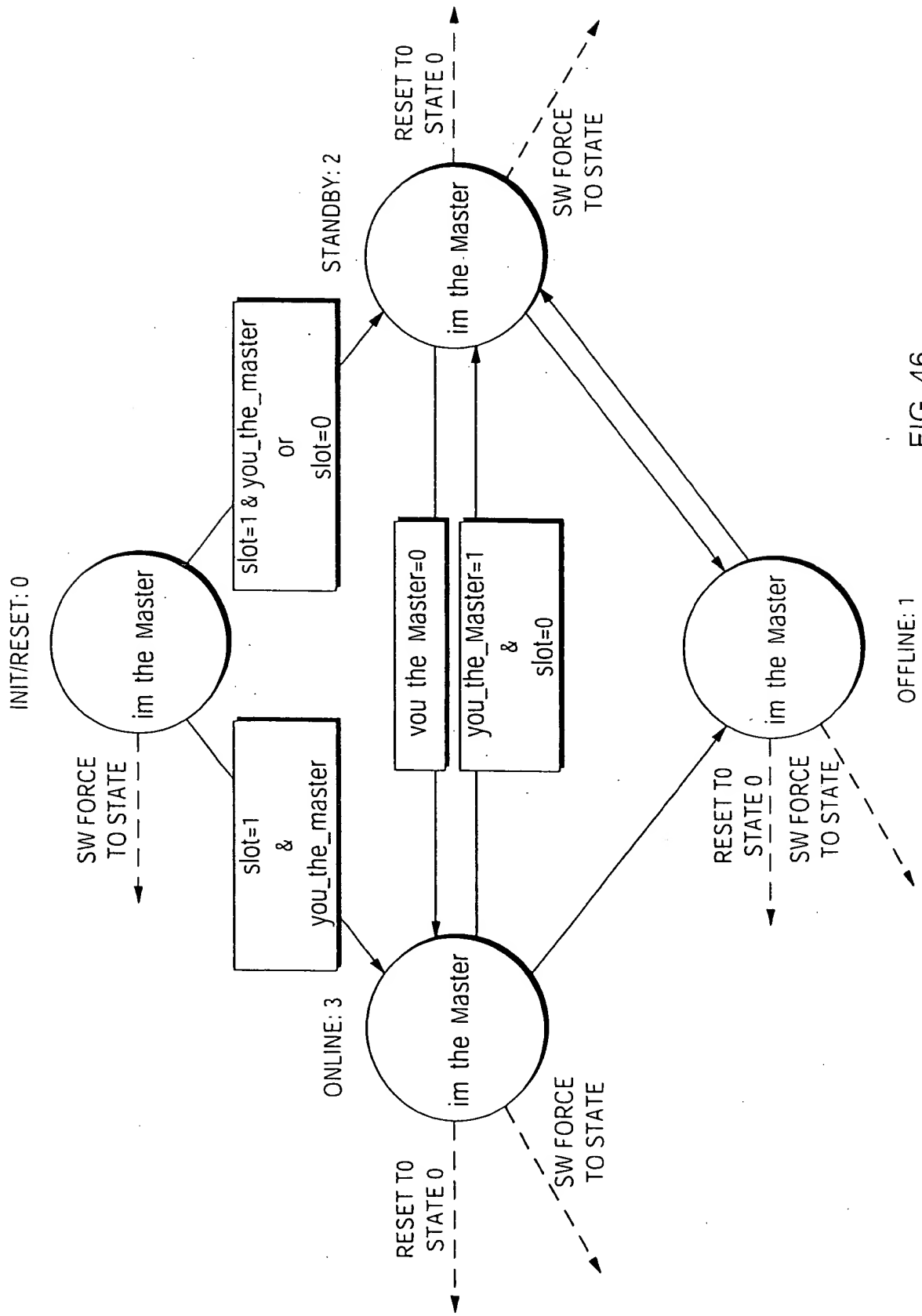


FIG. 46

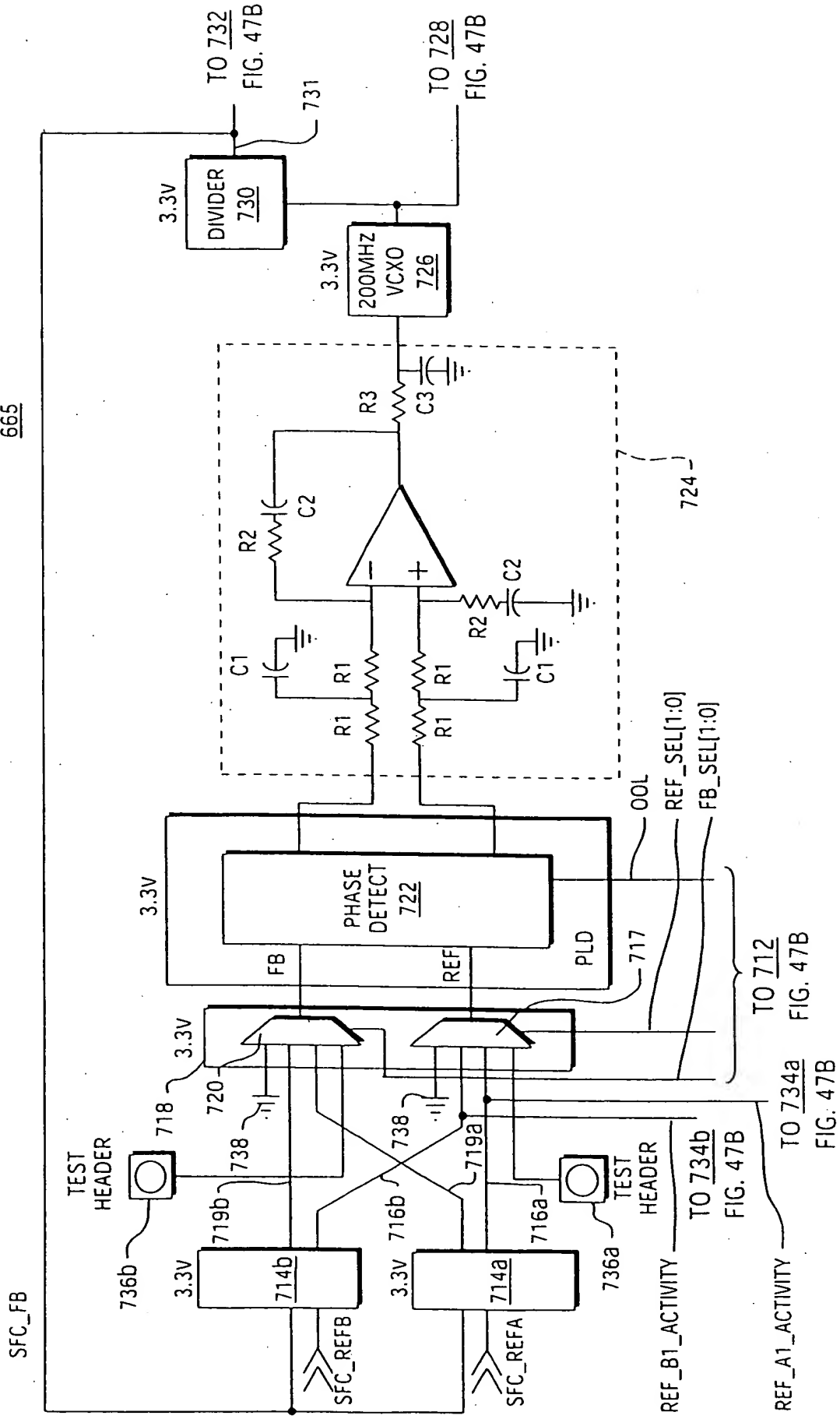


FIG. 47A

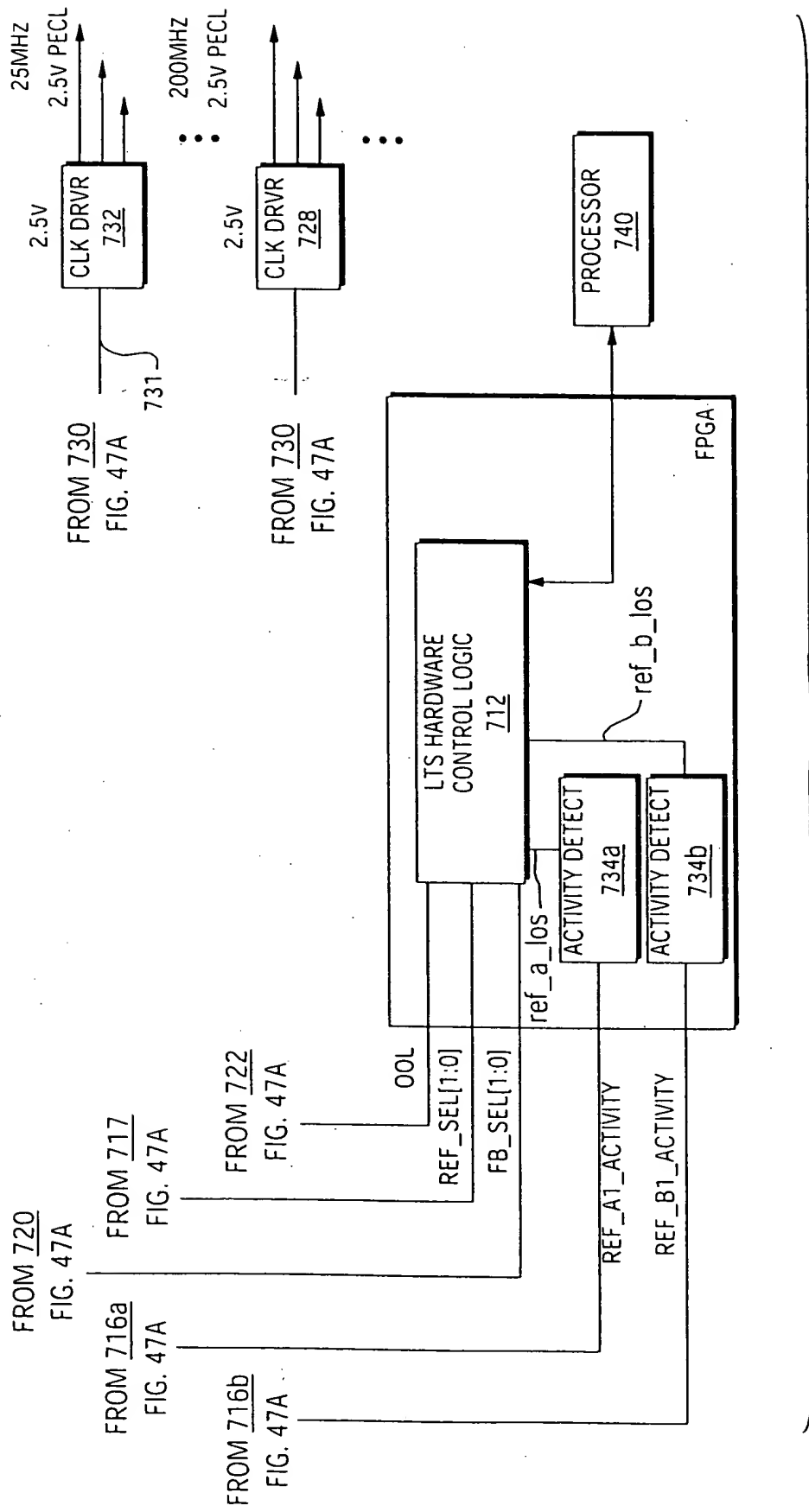


FIG. 47B

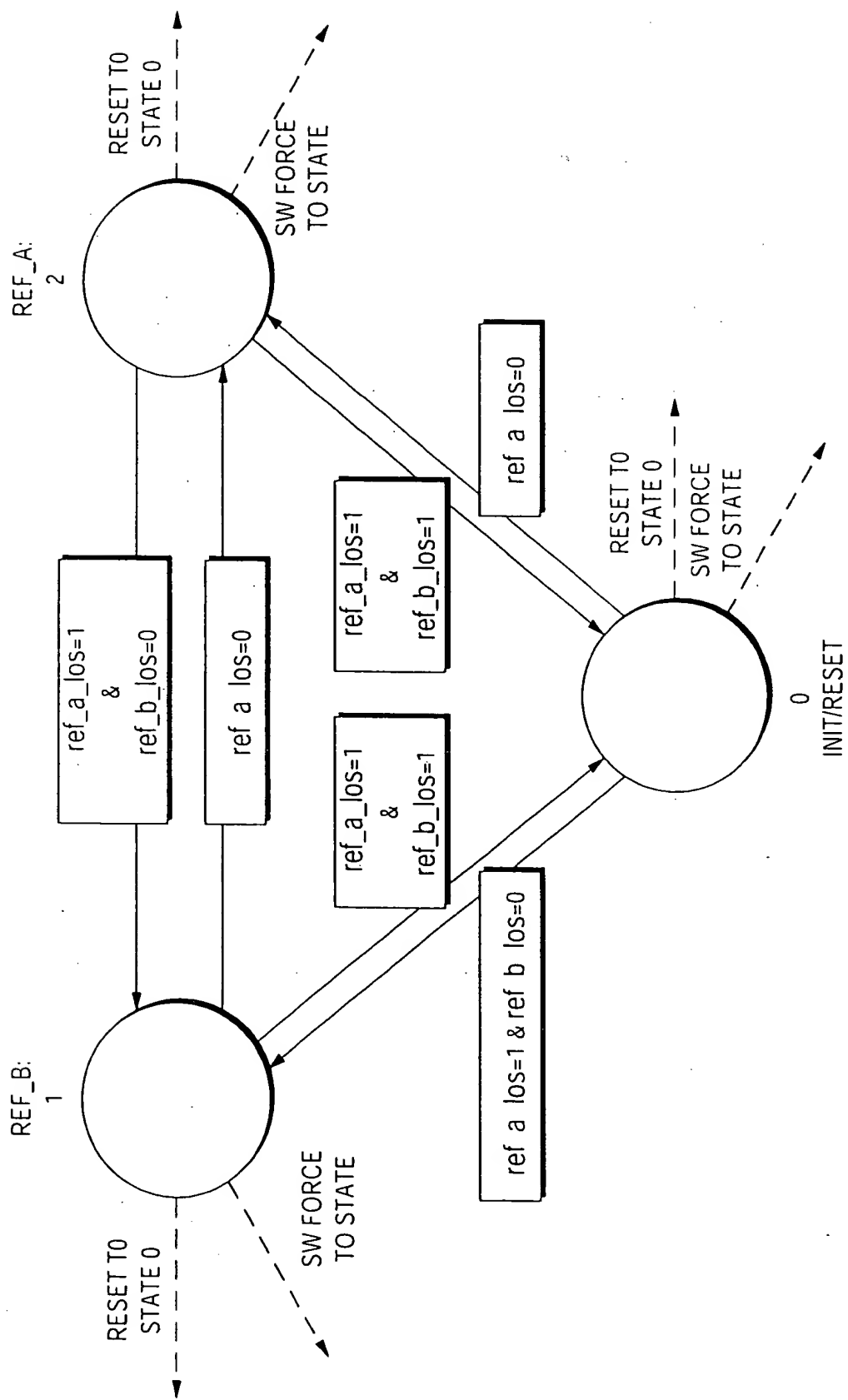


FIG. 48

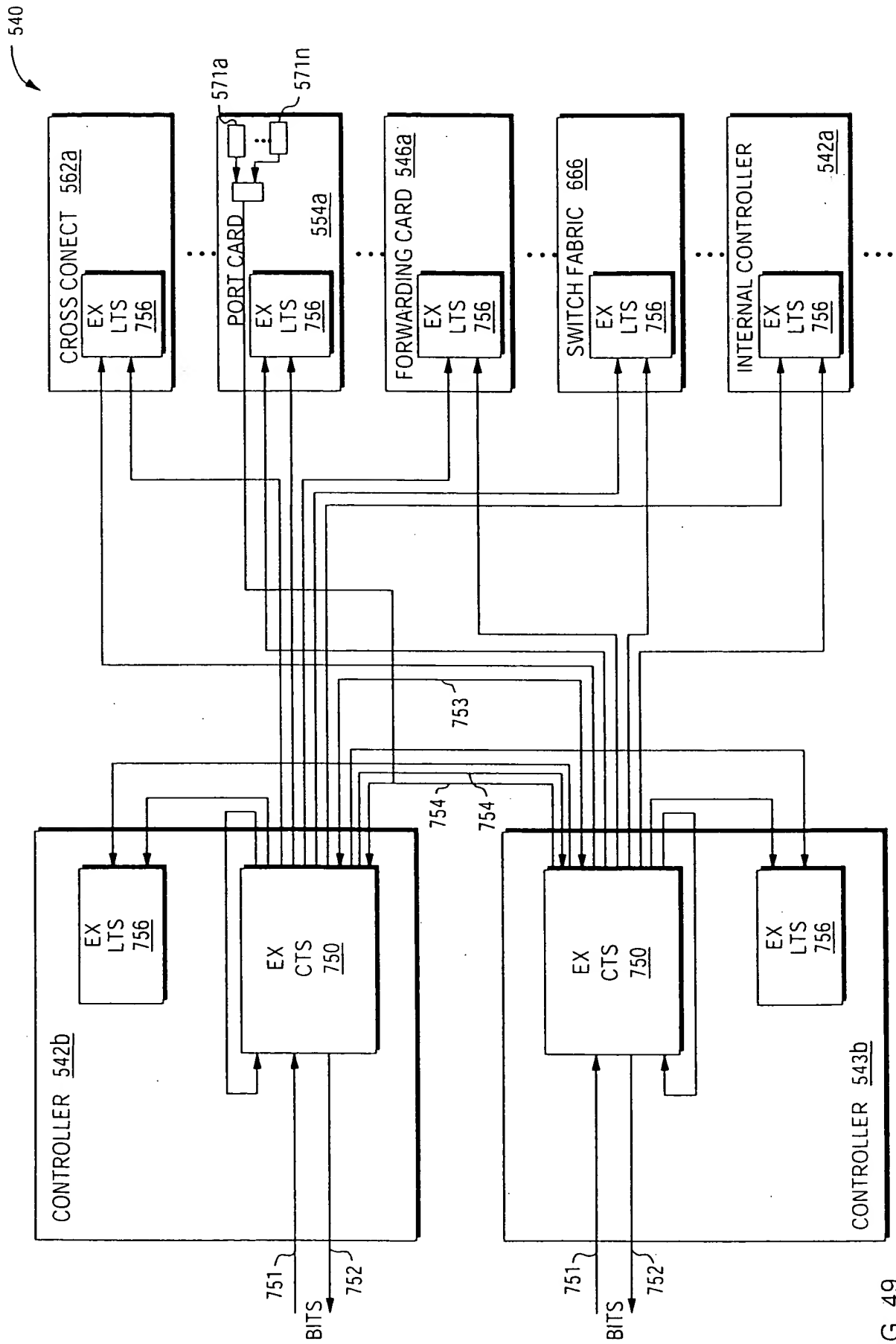
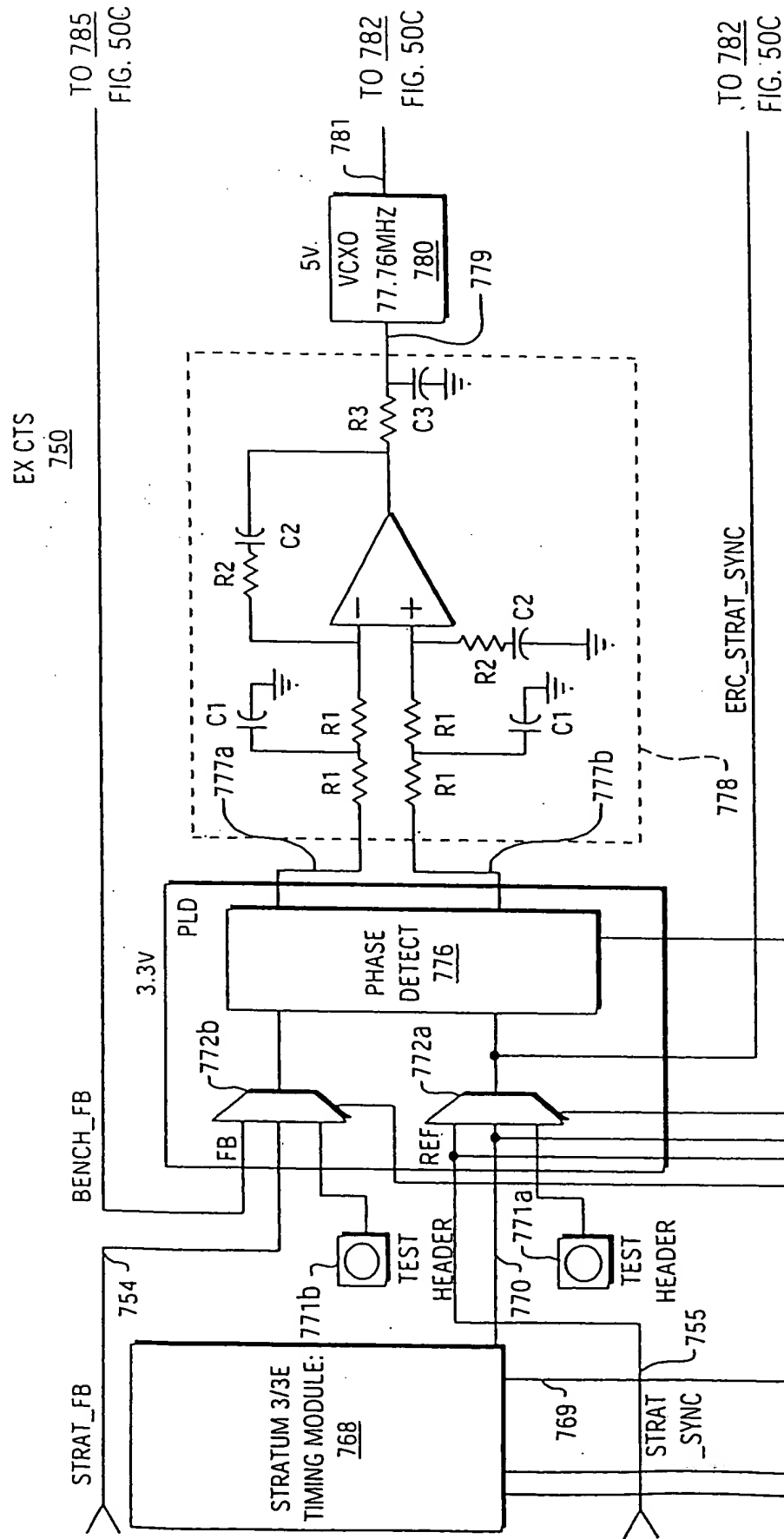


FIG. 49



TO
FIG. 50B

FIG. 50A

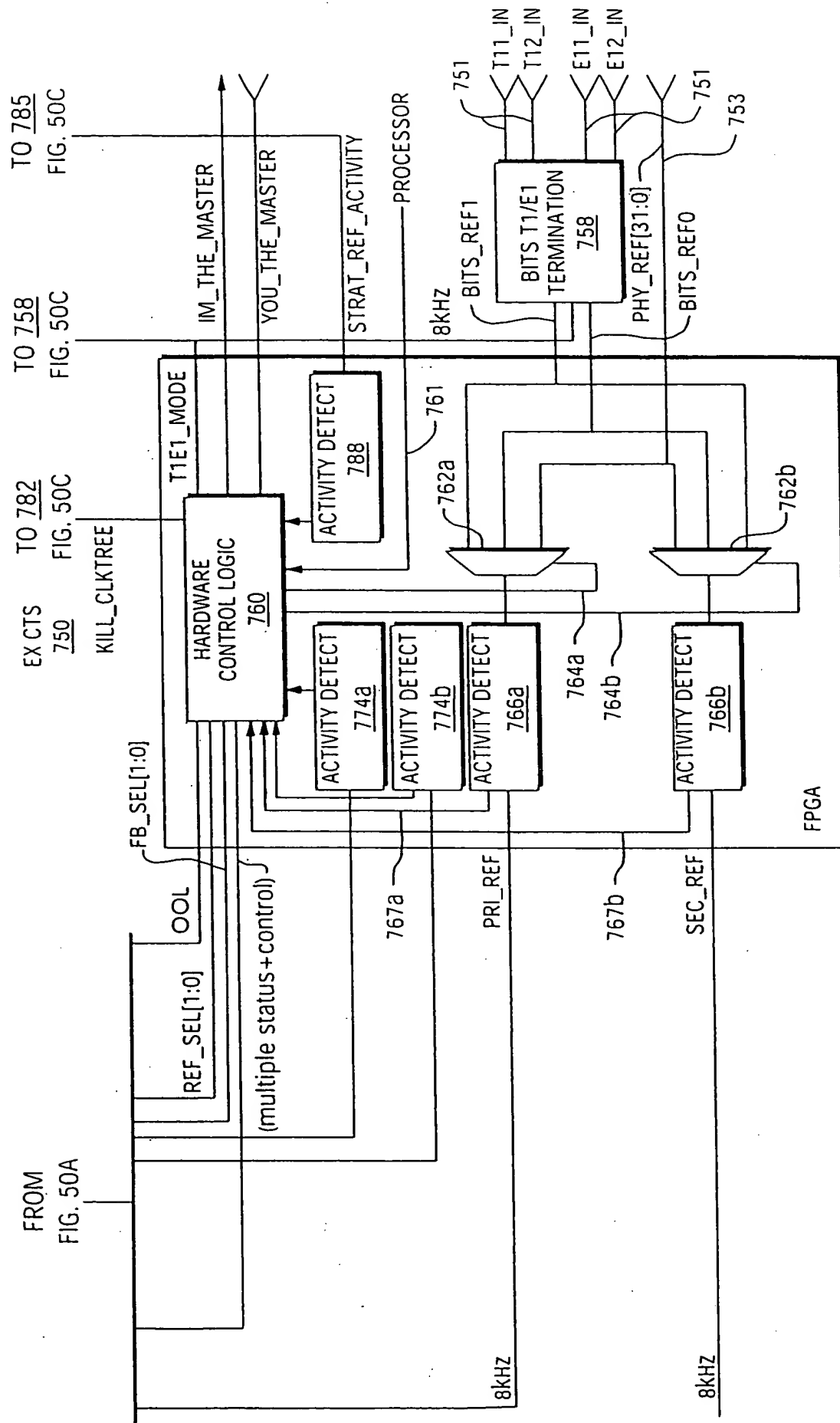


FIG. 50B

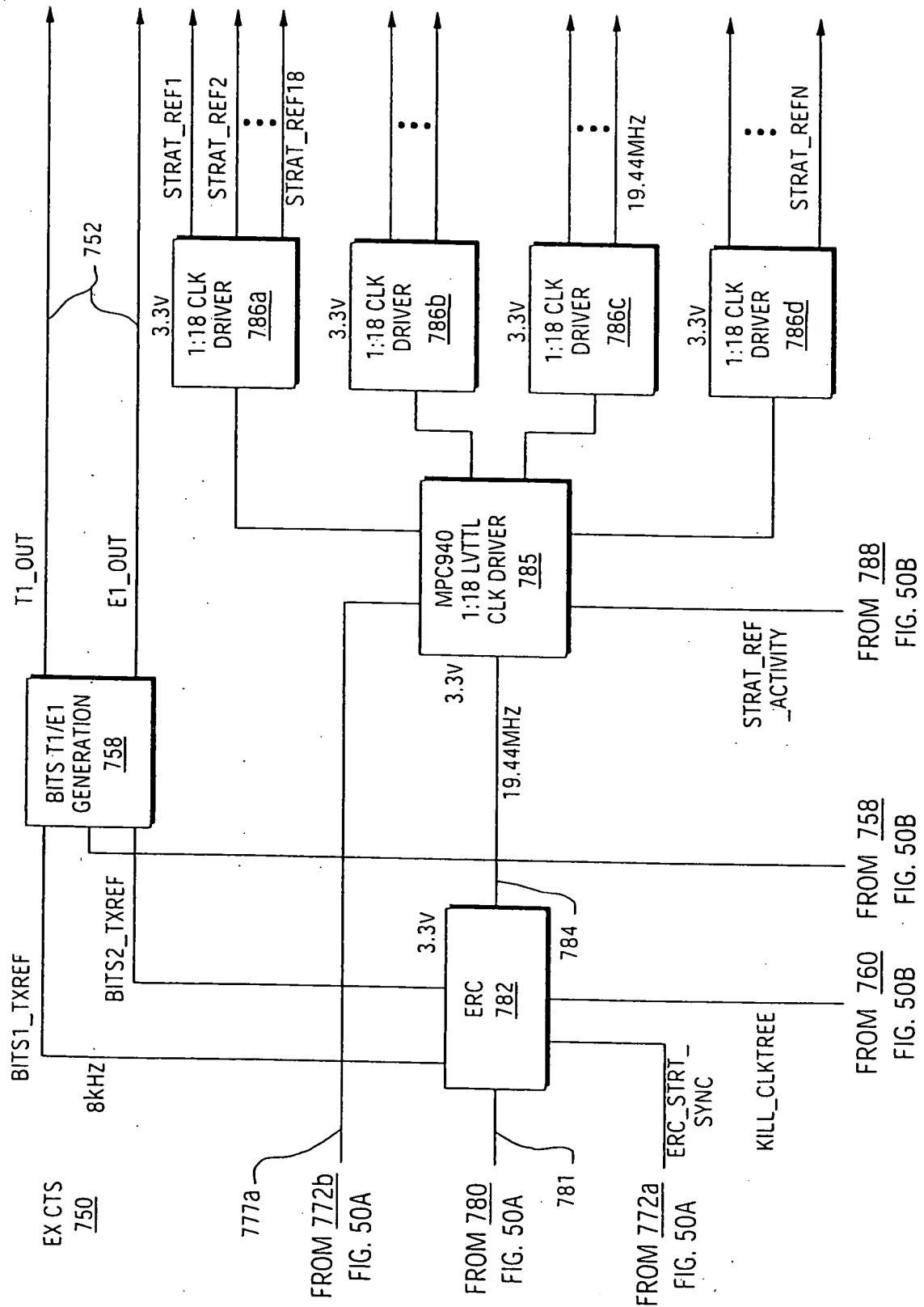


FIG. 50C

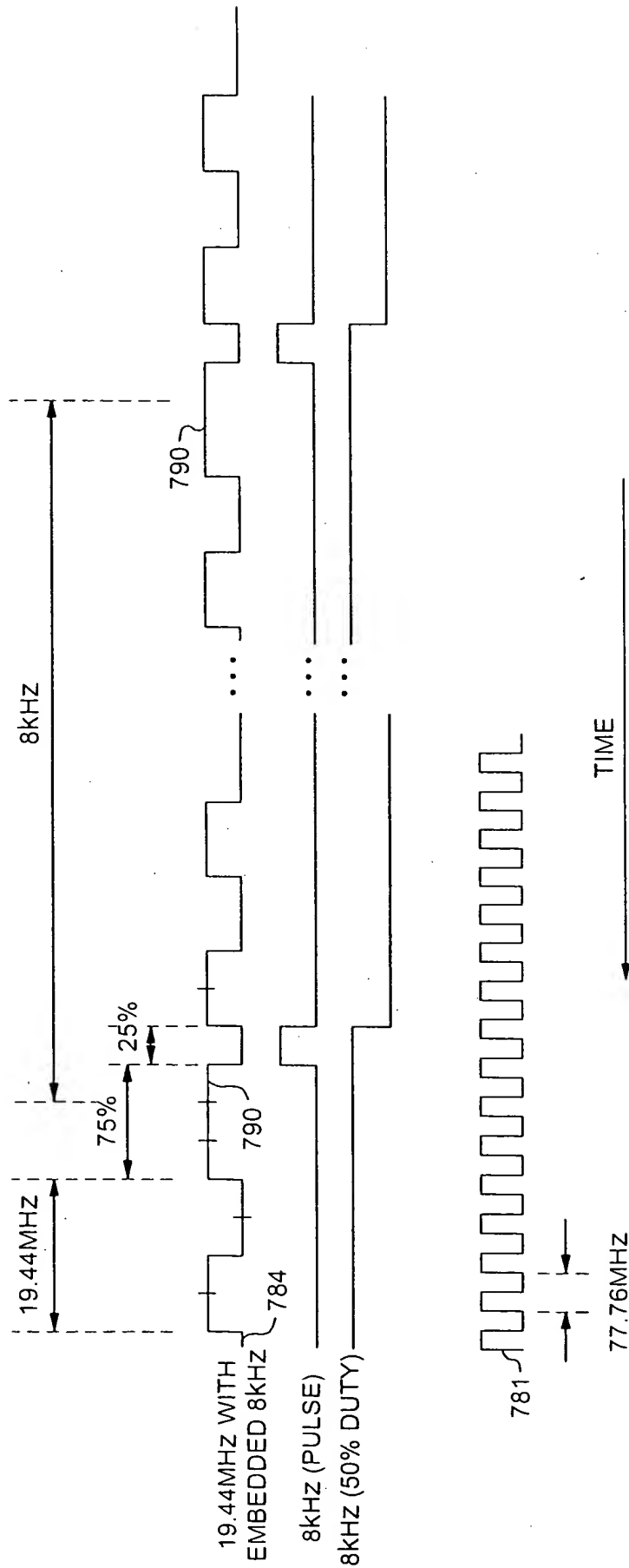
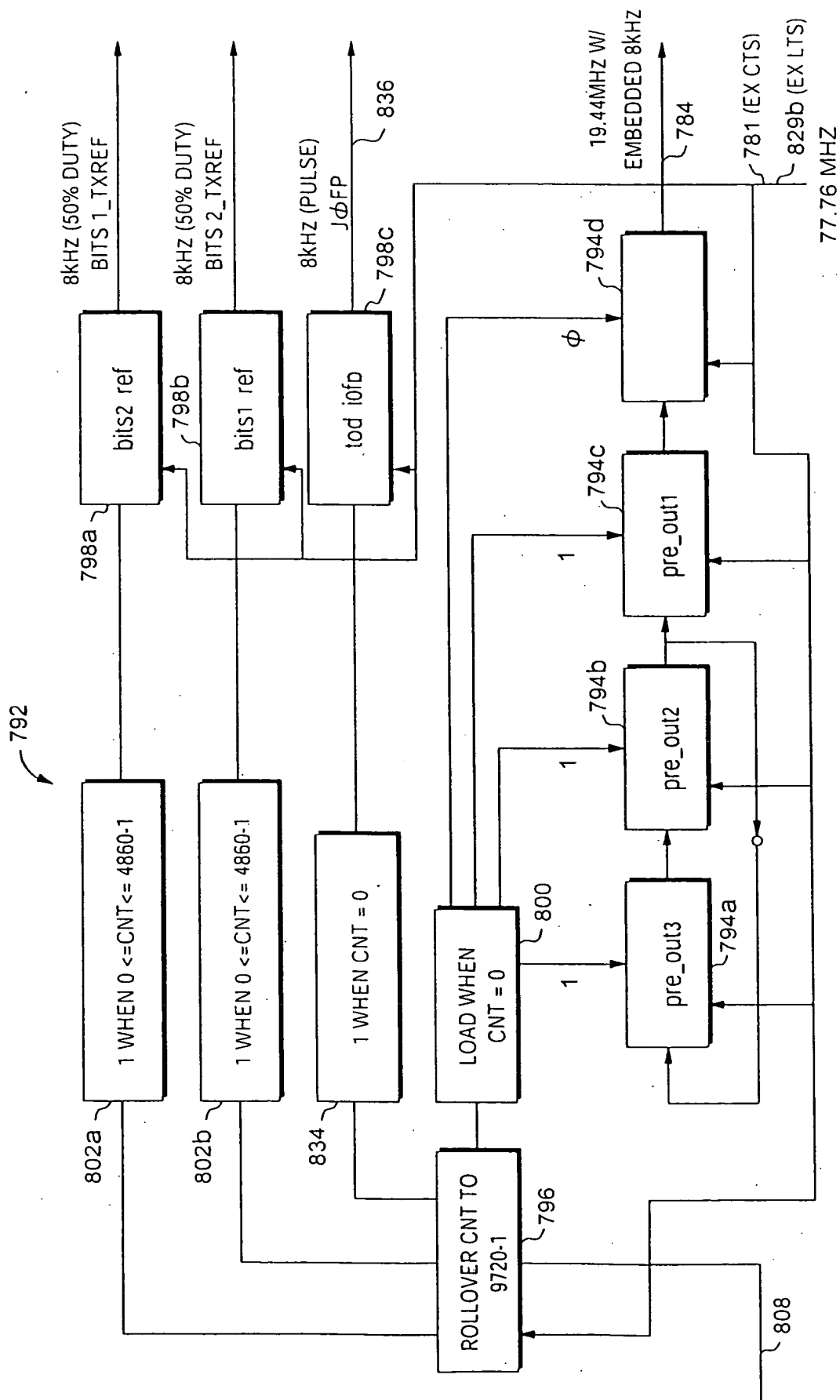


FIG. 51



EXTRACTOR
804

ERC_STRAT_SYNC (EX CTS)
STRAT_REF_A OR STRAT_REF_B (EX LTS) 832
19.44MHZ WITH ENCLOSED 8KHZ
(MUST BE PULLED LOW WHEN NOT PRESENT)

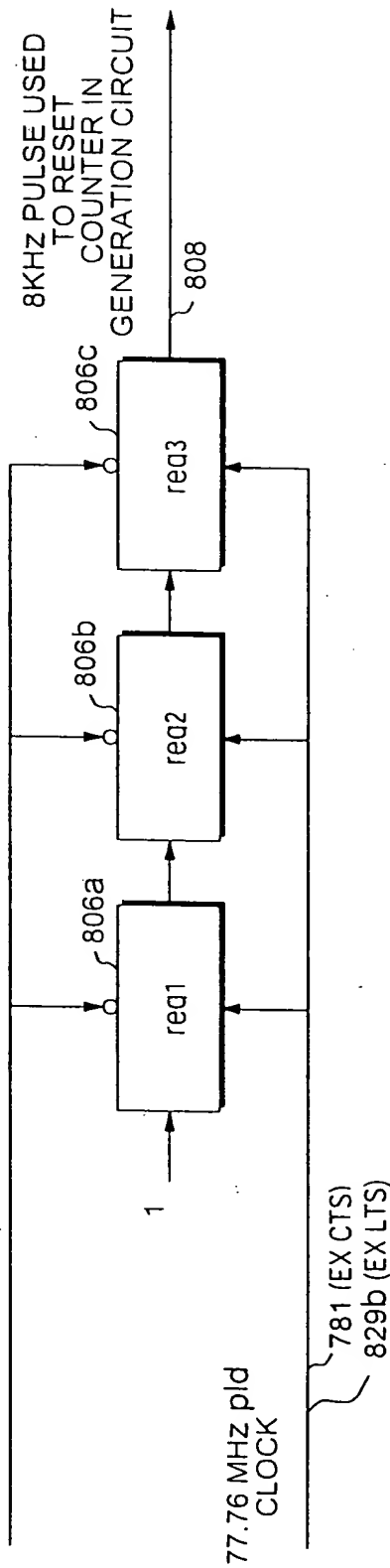


FIG. 53

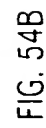


FIG. 54A

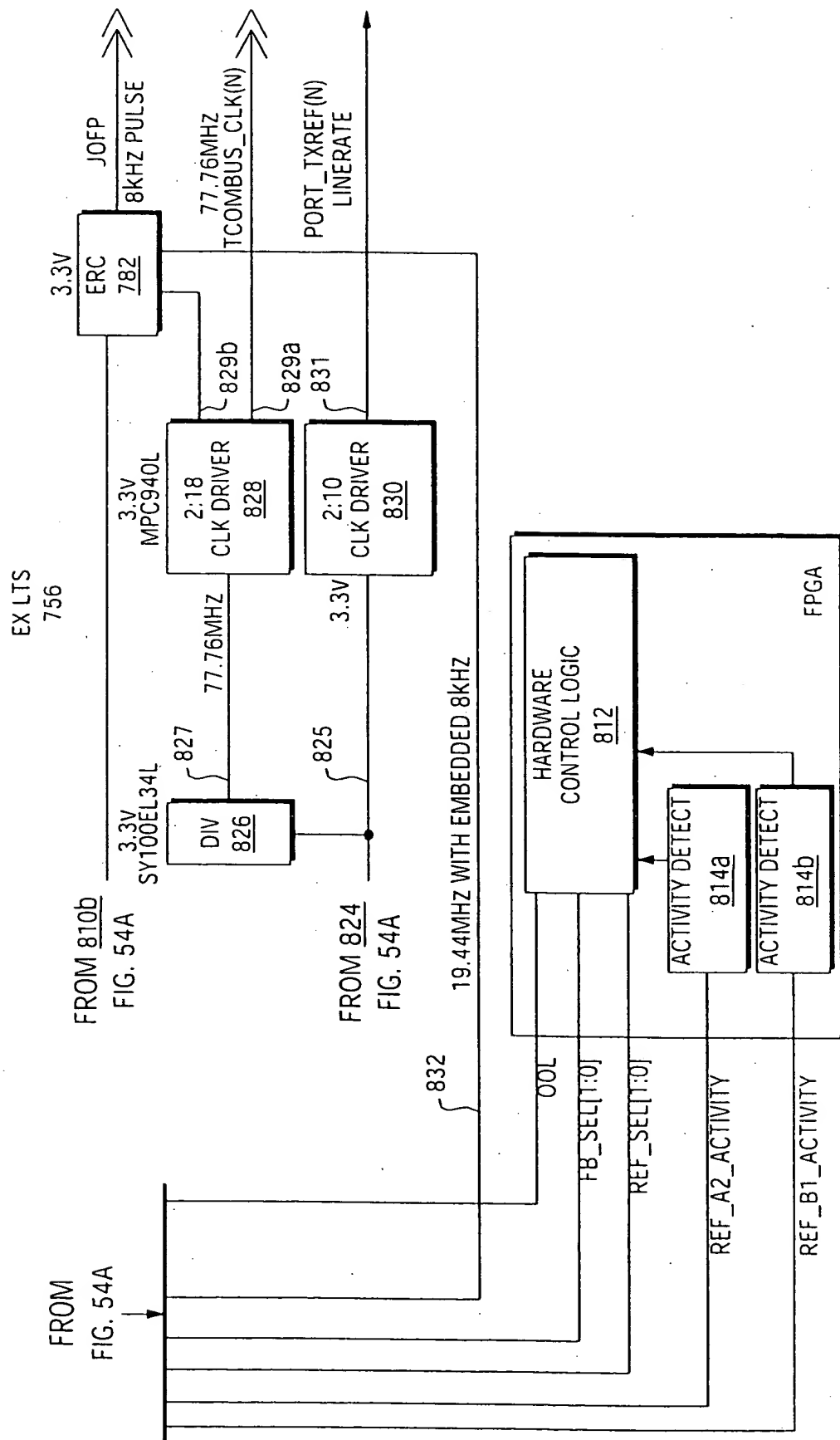


FIG. 54B

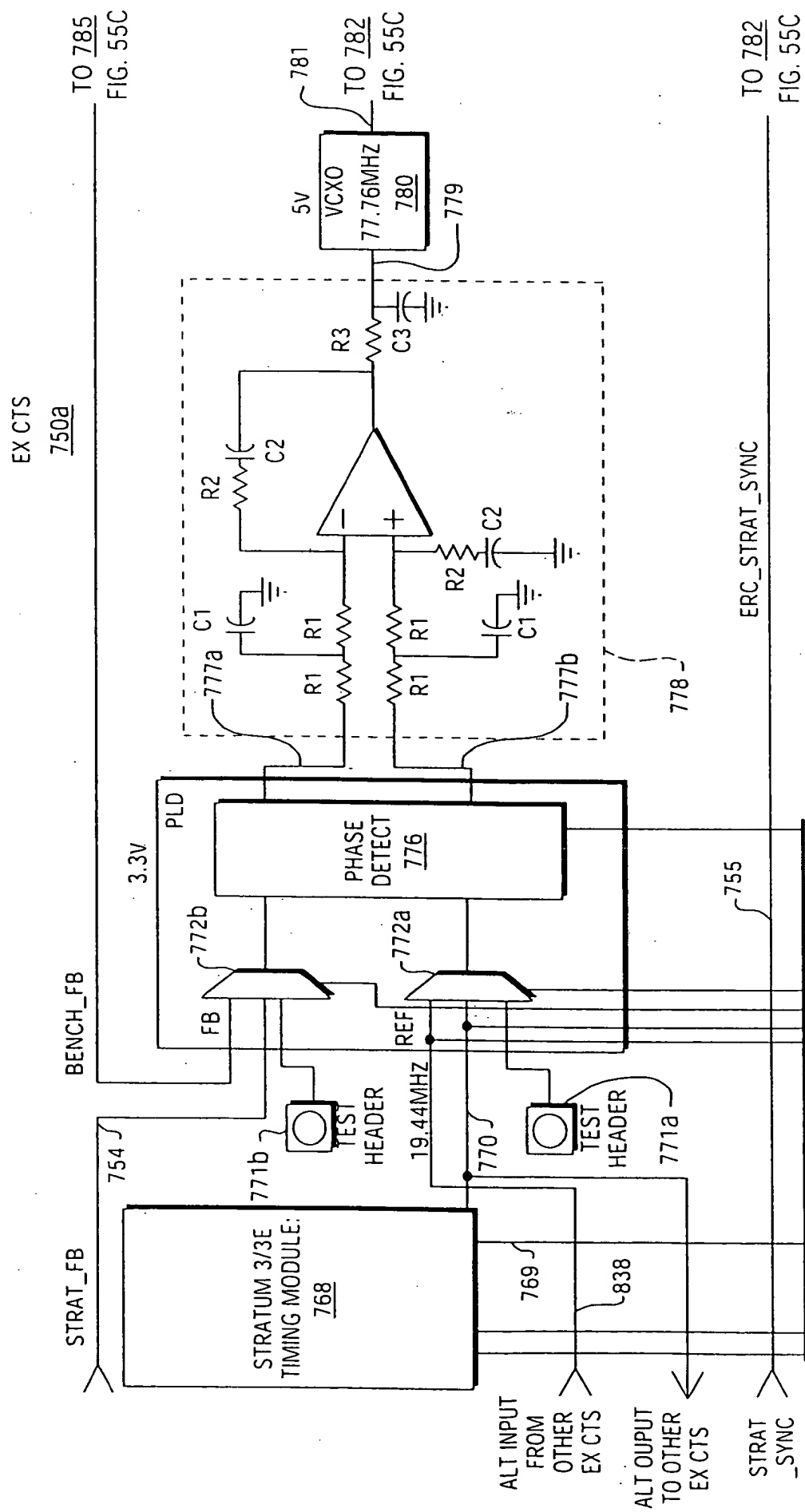


FIG. 55A



FIG. 55B

EX CTS

750a

FROM
FIG. 55A

TO 782
FIG. 55C

TO 758
FIG. 55C

TO 785
FIG. 55C

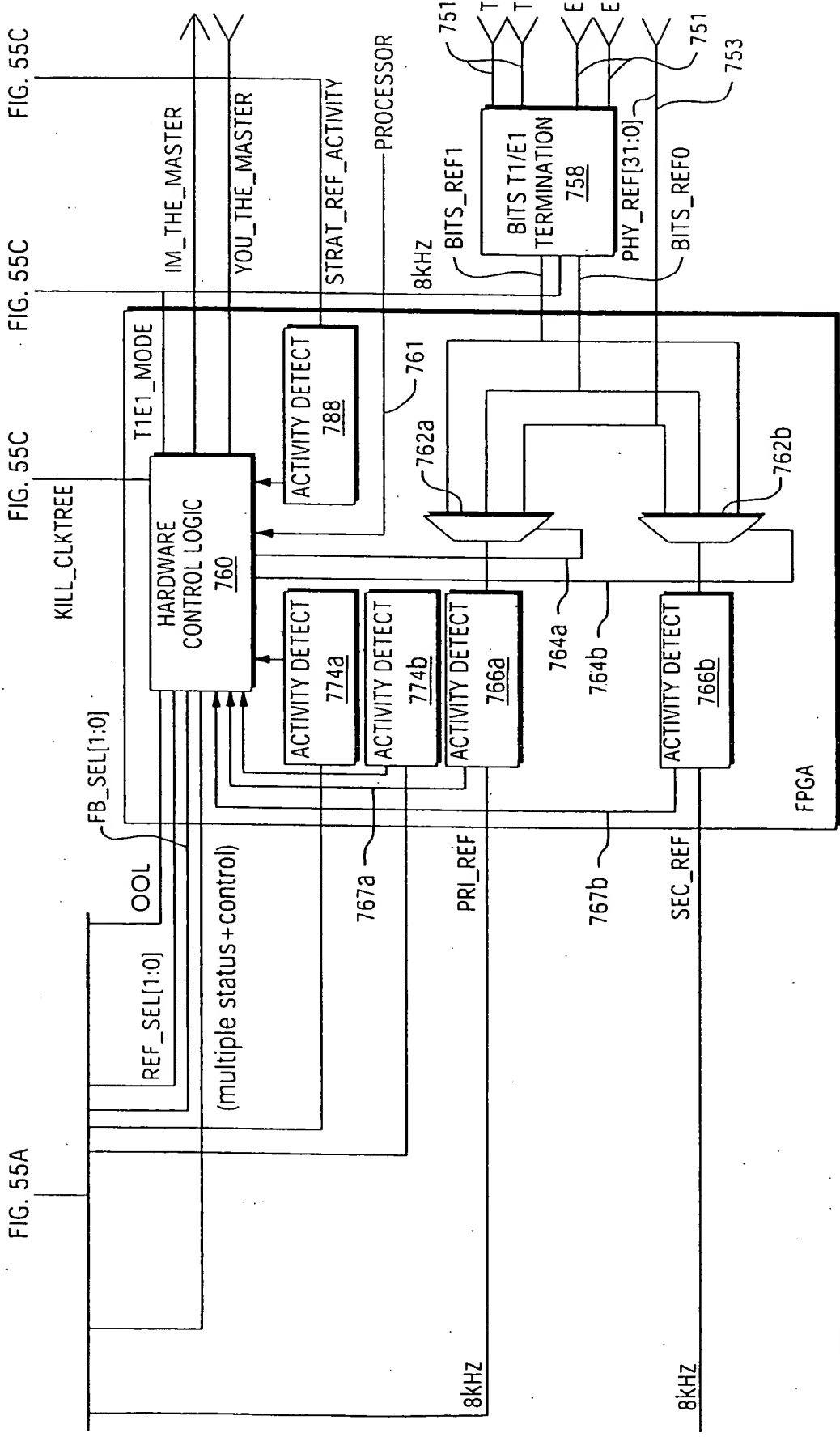


FIG. 55B

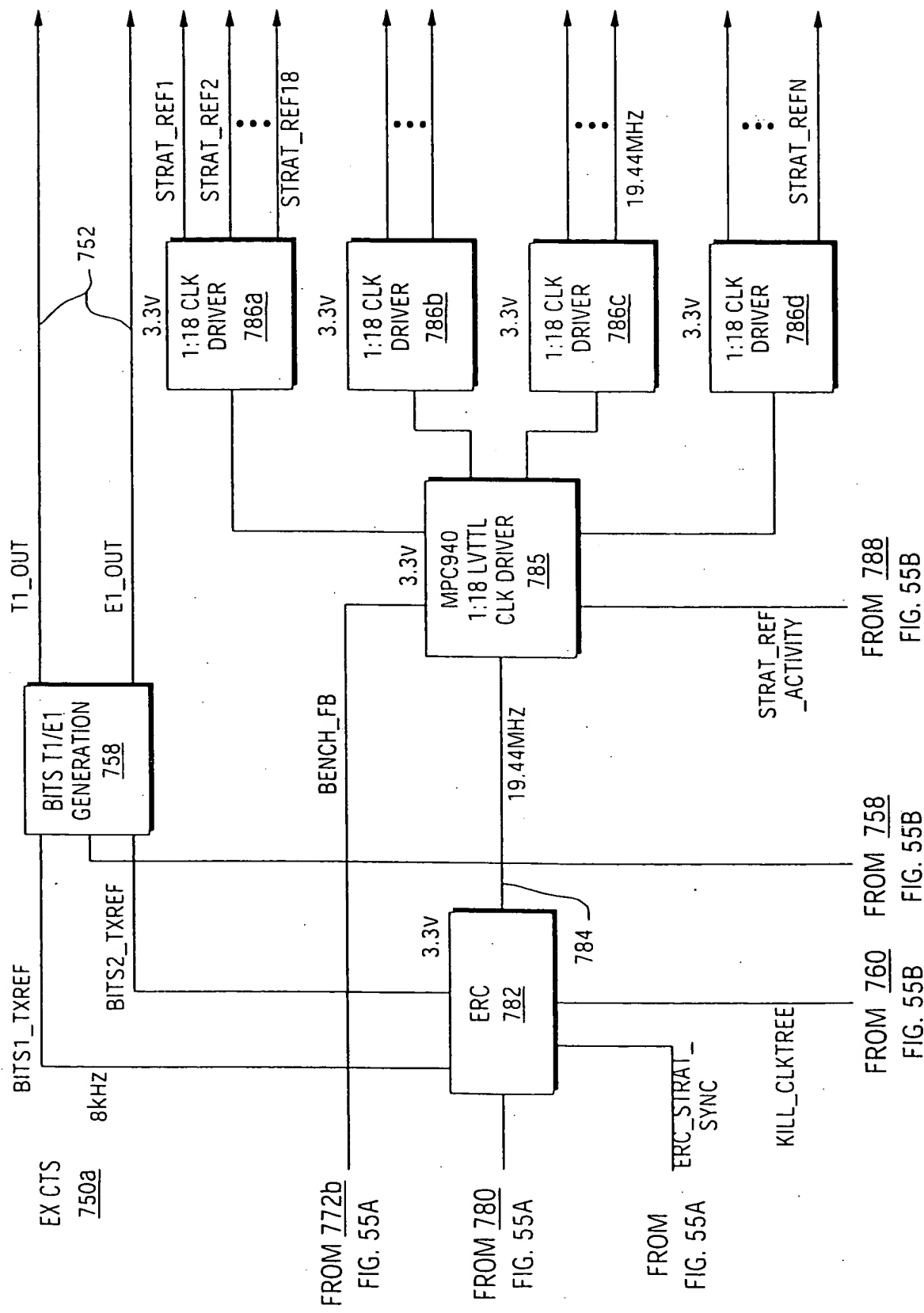


FIG. 55C

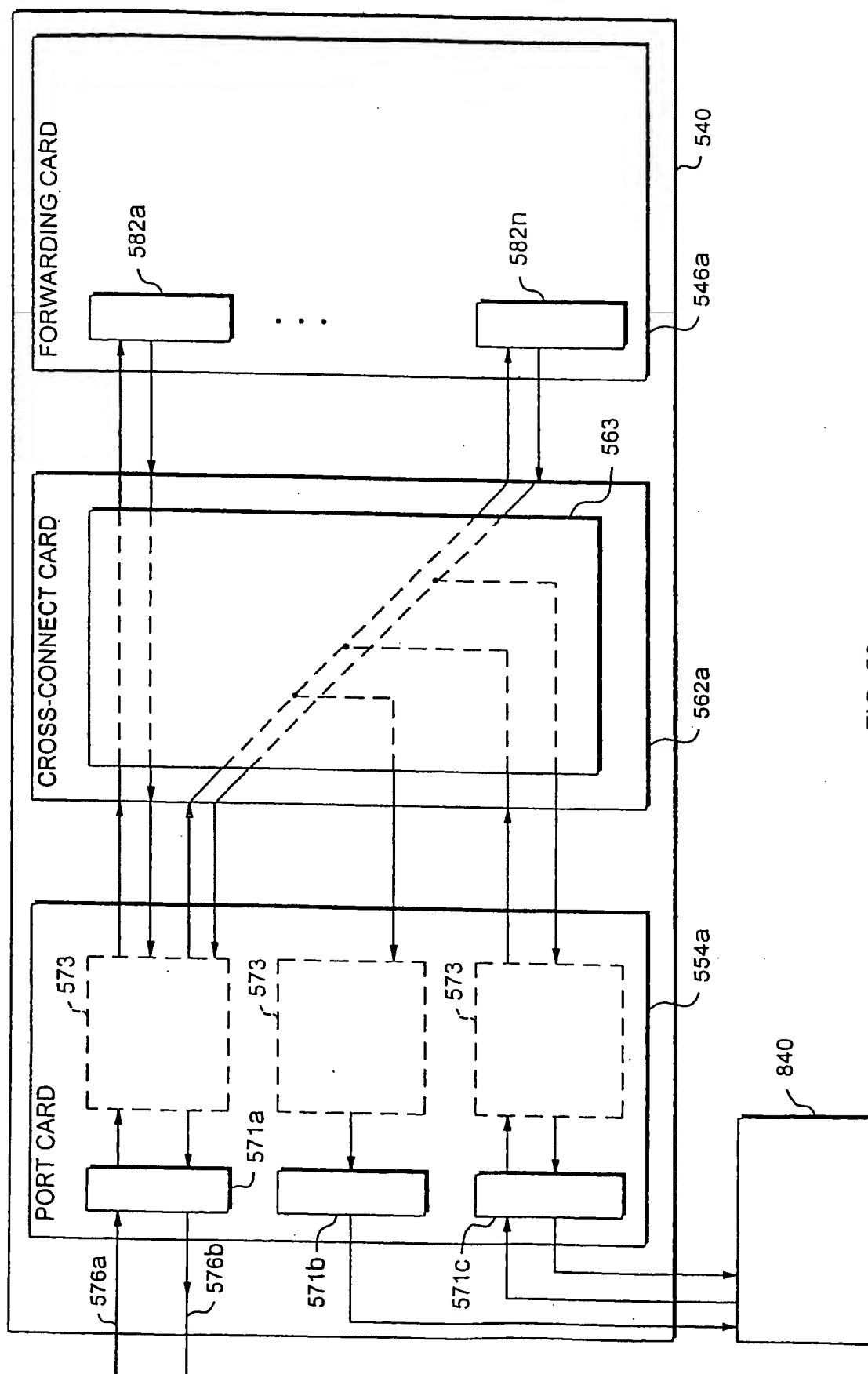


FIG. 56

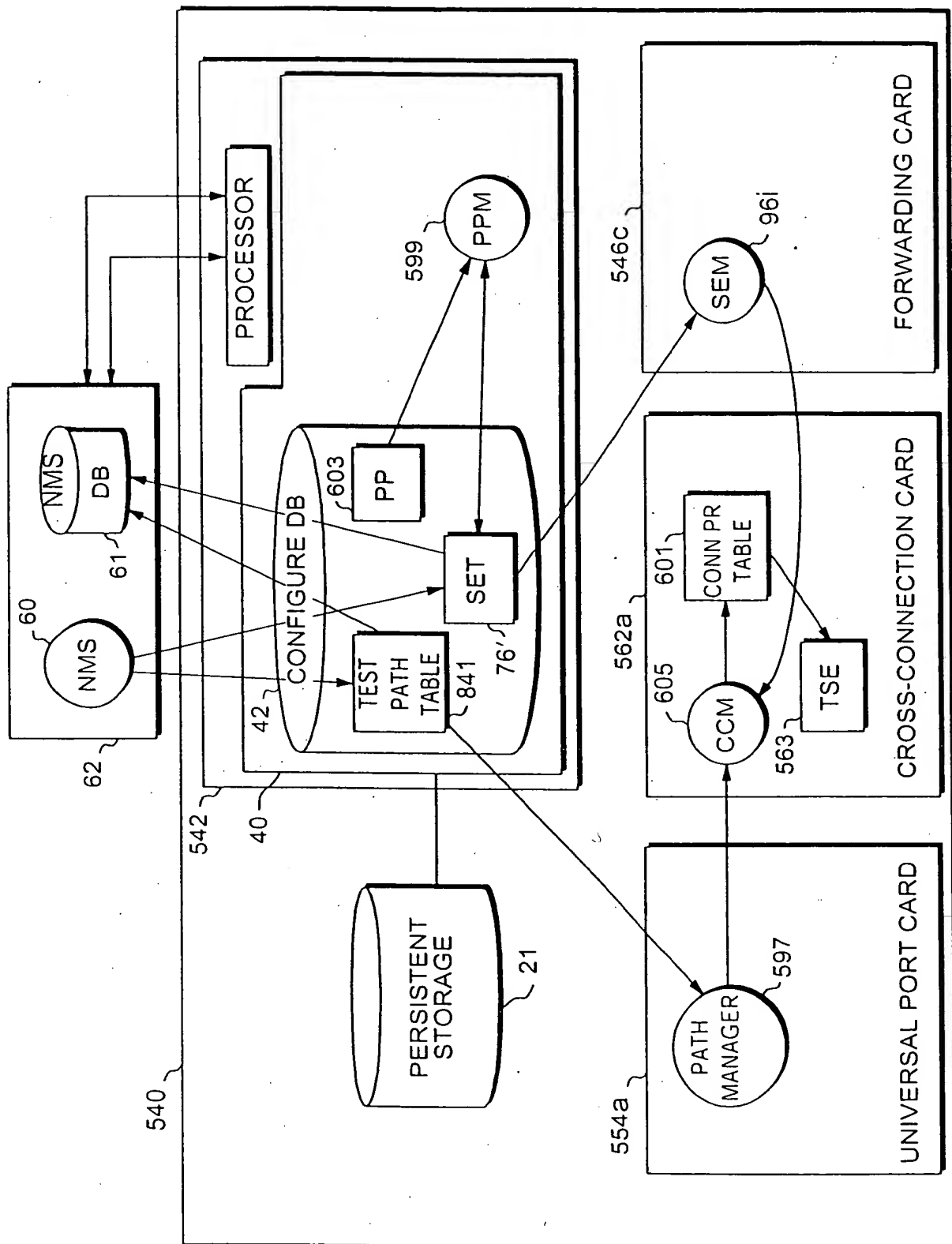


FIG. 57

TEST PATH TABLE 841

PATH LID	UP PORT LID	TIME SLOT	# OF TIME SLOTS	MONITOR	844	
					ENABLE PORT RECEIVER	...
842 { 1666	1232	4	3	INGRESS	NO	
843 { 1666	1233	4	3	EGRESS	NO	
844 { 1666	1233	4	3	INGRESS	YES	
.
.
.

FIG. 58